

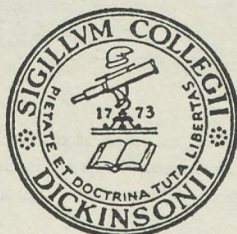
Dickinson

COLLEGE BULLETIN 1962



DICKINSON COLLEGE
BULLETIN

One Hundred Eighty-ninth Edition
1773-1962



ANNUAL CATALOGUE ISSUE
1962-1963

VOLUME LV
No. 3



DICKINSON, an illustrated booklet describing life at Dickinson College, is available on request from the Dean of Admission.

DICKINSON COLLEGE BULLETIN

Published by Dickinson College, Carlisle, Pa.
Entered at the Post Office in Carlisle, Pennsylvania, as second-class matter May 11, 1918, under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, and authorized August 3, 1918.

College Calendar

1962-1963

- FALL SEMESTER OPENSMonday, September 17, 1962
- REGISTRATIONMonday, September 17, 1962 at 9: 00 A. M.
- CLASSES BEGINThursday, September 20, 1962 at 8: 00 A. M.
- COLLEGE CONVOCATIONThursday, September 20, 1962 at 11: 00 A. M.
- MATRICULATION SERVICESunday, September 23, 1962
- THANKSGIVING RECESSWednesday, November 21, 1962 at 12: 00 Noon
to Monday, November 26, 1962 at 8: 00 A. M.
- CHRISTMAS RECESSWednesday, December 19, 1962 at 12: 00 Noon
to Thursday, January 3, 1963 at 8: 00 A. M.
- CLASSES CLOSESaturday, January 12, 1963 at 12: 00 Noon
- EXAMINATIONS BEGINMonday, January 14, 1963 at 8: 00 A. M.
- EXAMINATIONS CLOSEFriday, January 25, 1963 at 5: 00 P. M.
- FALL SEMESTER ENDSSaturday, January 26, 1963
- SPRING SEMESTER OPENSMonday, January 28, 1963 at 8: 00 A. M.
- SPRING RECESSFriday, March 22, 1963 at 12: 00 Noon to Mon-
day, April 1, 1963 at 8: 00 A. M.
- FOUNDERS' DAYThursday, April 25, 1963
- CLASSES CLOSESaturday, May 18, 1963 at 12: 00 Noon
- FINAL EXAMINATIONS BEGINMonday, May 20, 1963 at 8: 00 A. M.
- EXAMINATIONS CLOSEWednesday, May 29, 1963 at 5: 00 P. M.
- COMMENCEMENTSunday, June 2, 1963
- FALL SEMESTER OPENSMonday, September 16, 1963

Accreditation and Memberships

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I

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1953	HENRY LOGAN, A.M., LL.B.	Brooklyn, N. Y.
1950	DAVID M. WALLACE, A.M., LL.B.	Harrisburg
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* Deceased December 24, 1961.

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 1933 SUMNER M. DRAYER Baltimore, Md.
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 (ALUMNI TRUSTEE)
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 1955 HERBERT M. GOULD, LL.B., D.B.A. Philadelphia
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A.B., Dickinson College, 1931; D.D., 1945; B.D., Union Theological Seminary, 1937; L.H.D., Trinity College, 1957

GILBERT MALCOLM, *The Provost of the College*

Ph.B., Dickinson College, 1915; A.M., 1917; LL.B., Dickinson School of Law, 1917; LL.D., Western Maryland College, 1948; LL.D., Dickinson School of Law, 1961

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B.S., United States Naval Academy, 1922; M.A., Dartmouth College, 1946

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Ph.B., Dickinson College, 1937; LL.D., Lycoming College, 1958

EMERITI

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A.B., Dickinson College, 1915; A.M., 1919; D.D., 1935; S.T.B., Boston University School of Theology, 1921; L.H.D., Keuka College, 1944; D.D., Hobart College, 1944; LL.D., Gettysburg College, 1949; LL.D., University of Pennsylvania, 1949; D.Hu., Boston University, 1950; J.U.D., Lebanon Valley College, 1956; F.I.A.L., 1959

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A.B., Harvard College, 1909; A.M., University of Wisconsin, 1911; Ph.D., 1915; L.H.D., Dickinson College, 1960

LEWIS GUY ROHRBAUGH, *Thomas Bowman Professor Emeritus of Philosophy and Religion*

A.B., Dickinson College, 1907; A.M., 1910; B.D., Drew Theological Seminary, 1910; Ph.D., State University of Iowa, 1922

- MILTON WALKER EDDY, *Professor Emeritus of Biology*
 B.S., Northwestern University, 1910; M.S., 1912; Ph.D., University
 of Pennsylvania, 1929
- WELLINGTON AMOS PARLIN, *Professor Emeritus of Physics*
 A.B., Simpson College, 1921; M.S., University of Iowa, 1922; Ph.D.,
 Johns Hopkins University, 1929
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 guages*
 B.A., Ohio State University, 1911; M.A., 1912; Ph.D., University
 of Pennsylvania, 1916
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 A.B., Dickinson College, 1901; A.M., 1902; D.Lit., 1952
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 Ph.B., Dickinson College, 1909; Graduate, Pratt Institute School of
 Library Science, 1917
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 A.B., Ripon College, 1911; A.M., Leland Stanford Jr. University,
 1918
- FRIEDRICH SANDELS, *Professor Emeritus of German*
 Ph.D., University of Giessen, Germany, 1912
- JAMES CLAIR McCULLOUGH, *Richard V. C. Watkins Professor Emeritus
 of Education*
 Ph.B., Dickinson College, 1909; A.M., 1912; Ph.D., New York
 University, 1939
- RALPH SCHECTER, *Thomas Beaver Professor Emeritus of English Liter-
 ature*
 A.B., University of Illinois, 1916
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 Litt.B., Princeton University, 1910; M.A., 1912; Ph.D., New York
 University, 1930

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D.P.E., Dickinson College, 1959

ASA W. CLIMENHAGA, *Associate Professor Emeritus of Education*

A.B., Taylor University, 1919; M.A., Wittenberg College, 1940;
Ed.D., Syracuse University, 1945

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B.S., Dickinson College, 1924; M.S., Lafayette College, 1925; Ph.D., Princeton University, 1930

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A.B., Wesleyan University, 1919; B.D., Garrett Biblical Institute, 1922; Ph.D., Boston University, 1929

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B.A., Williams College, 1916; A.M., Harvard University, 1917;
S.T.B., Andover Theological Seminary, 1922; Ph.D., Columbia University, 1936

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A.B., Ursinus College, 1925; A.M., University of Pennsylvania, 1929; Sc.D., Johns Hopkins University, 1941

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A.B., Hamilton College, 1932; M.A., Columbia University, 1933;
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A.B., Dickinson College, 1934; M.A., Bucknell University, 1936

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B.A., Haverford College, 1925; M.A., Harvard University, 1926; Litt.D., Temple University, 1957

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A.B., Dickinson College, 1931; A.M., Columbia University, 1938; Ph.D., 1946

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Diploma, Faculty of Law, University of Belgrade, 1923; D. Juris, International Law, Private and Public, University of Geneva, 1931

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B.S., Pennsylvania State University, 1925; M.S., 1927; Ph.D., 1934

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A.B., University of Redlands, 1926; A.M., University of Southern California, 1933; Ed.D., 1949

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A.B., Birmingham-Southern College, 1936; A.M., University of Virginia, 1938; Ph.D., 1940

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B.A., Long Island University, 1937; M.A., Columbia University, 1947; Ph.D., New York University, 1951

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A.B., University of Delaware, 1930; M.A., Middlebury French School, 1935; Ph.D., University of Illinois, 1955

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* Refresher-Year Leave 1961-62.

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B.S., Central Missouri State College, 1921; M.A., Teachers College, Columbia University, 1928; Ed.D., New York University, 1936

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B.S., Franklin and Marshall College, 1918; M.A., Columbia University, 1920

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B.S., Oregon State College, 1931; M.A., Northwestern University, 1936

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Ph.B., Lafayette College, 1918; M.A., Pennsylvania State University, 1922; Ph.D., University of Illinois, 1927

* Refresher-Year Leave 1961-62.

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A.B., Duke University, 1941; A.M., University of Pennsylvania, 1947; Ph.D., 1951

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B.S., Northwestern University, 1928; M.S., University of Chicago, 1932

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A.B., Columbia University, 1926; M.A., 1929; Ed.D., The George Washington University, 1949

HERBERT ROYCE, *Associate Professor of Modern Languages*

Dr.rer.pol., University of Kaliningrad, 1926

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A.B., Syracuse University, 1943; Ph.D., 1954

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B.S., Bucknell University, 1954

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B.A., Johns Hopkins University, 1948; M.A., 1949; Ph.D., University of Pennsylvania, 1957

CARL E. KERR, *Associate Professor of Mathematics, Acting Chairman of the Department of Mathematics*

B.S., La Salle College, 1950; M.A., University of Delaware, 1953; Ph.D., Lehigh University, 1959

- RICHARD HENRY WANNER, *Associate Professor of Psychology*
A.B., Franklin and Marshall College, 1939; Ed.M., Harvard University, 1940
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B.C.S., New York University, 1928; C.P.A., Pennsylvania, 1933; New York, 1950
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A.B., Evansville College, 1940; S.T.B., Boston University School of Theology, 1943
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H.H.D., Lycoming College, 1957; LL.D., Lebanon Valley College, 1959

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B.S., Haverford College, 1942; M.A., University of Michigan, 1948
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B.S., Siena College, 1950; M.A., Columbia University, 1954; Ph.D., 1955
- LLOYD ULTAN, *Assistant Professor of Music, Chairman of the Department of Music*
B.S., New York University, 1951; M.A., Columbia University, 1952; Ph.D., State University of Iowa, 1956
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A.B., Franklin and Marshall College, 1932; Ph.D., Johns Hopkins University, 1955
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A.B., Wheaton College, 1947; M.S., Northwestern University, 1948; Ph.D., University of Illinois, 1953

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B.S., George Washington University, 1943; M.A., Columbia University, 1950
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A.B., Columbia College, 1952; A.M., Columbia University, 1953;
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B.S. in Physical Education, Ithaca College, 1948; M.A. in Physical Education, New York University, 1951
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A.B., Connecticut College for Women, 1933; M.A., Teachers College, 1937; B.D., Union Theological Seminary, 1944; Ph.D., Boston University School of Theology, 1958
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B.S. in Education, Miami University, 1949; M.A., 1951
- ANDREW CRAIG HOUSTON, *Assistant Professor of Economics*
A.B., Pennsylvania State University, 1951; Graduate, School for English Speaking Students, University of Stockholm, 1952

* Deceased July 25, 1961.

- JOHN LLOYD KING, *Assistant Professor of Accounting*
B.A., Princeton University, 1948; M.A., University of Denver, 1950
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B.S., Lebanon Valley College, 1948; M.S. in Physics, Pennsylvania State University, 1950; M.S. Eng. Mech., 1957
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B.S., University of Pittsburgh, 1949; M.A., University of North Carolina, 1952; Ph.D., 1955
- FOREST SHELDON RITTGERS, JR., *Assistant Professor of Military Science*
A.B., The Citadel, 1953; Captain, Infantry, U. S. Army
- ERNEST KUHINKA, *Assistant Professor of Sociology*
B.A., University of Debrecen, Hungary, 1945; M.A., University of Utrecht, Holland, 1950; Ph.D., 1952
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B.A., University of New Hampshire, 1952; M.S., Lehigh University, 1955
- ALFRED NEWLON HARTSHORN, *Assistant Professor of English*
A.B., University of Rochester, 1932; A.M., 1957
- PHILIP B. SECOR, *Assistant Professor of Political Science*
A.B., Drew University, 1953; A.M., Duke University, 1958; Ph.D., 1959
- FRANK RITTENHOUSE HARTMAN, *Assistant Professor of Psychology*
B.S., Pennsylvania State University, 1953; M.S., 1955; Ph.D., 1957
- DONALD E. GORDON, *Assistant Professor of Fine Arts*
A.B., Harvard University, 1952; A.M., 1953; Ph.D., 1960
- STEPHEN B. COSLETT, *Assistant Professor of Psychology*
B.S., University of Pittsburgh, 1953; M.A., University of Denver, 1957; Ph.D., 1960

- BRUCE R. ANDREWS, *Assistant Professor of Political Science*
A.B., Syracuse University, 1950; Ph.D., Maxwell Graduate School
of Citizenship and Public Affairs, 1961
- RENE CURTISS JACOBS, *Assistant Professor of Military Science*
B.A., University of Iowa, 1949; Captain, Armor, U. S. Army
- WILLIAM STANLEY SIMPSON, JR., *Assistant Professor of Military Science*
B.S., University of Florida, 1950; Captain, Infantry, U. S. Army
- DAVID FRANTZ BRUBAKER, *Assistant Professor of Drama*
A.B., Franklin and Marshall College, 1948
- ROBERT NATHAN HALE ANDREWS, *Assistant Professor of English*
A.B., Harvard College, 1950; M.A., Columbia University, 1957
- *CONRAD ANDREW KAHLER, *Assistant Cataloguer with Rank of Assistant
Professor*
B.A., Southwestern College, 1949; M.S., Kansas State College, 1951;
M.L.S., Rutgers University, 1958
- BARBARA STEVENS WISHMEYER, *Dean of Women with Rank of Assistant
Professor*
B.A., University of Pennsylvania, 1955; M.S., Indiana University,
1957
- DAISY WILSON STRAYER, *Assistant Professor of Physical Education*
B.S. in Physical Education, West Chester State Teachers College, 1940
- WILBUR J. GOBRECHT, *Assistant Professor of Physical Education*
A.B., Dickinson College, 1952; A.M., Duke University, 1959
- NANCY JOANNE LOUGHRIDGE, *Head of Readers' Services with Rank of
Assistant Professor, Library*
A.B., Antioch College, 1953; M.A.L.S., University of Michigan,
1957
- STANLEY NODDER, JR., *Assistant Professor of Classical Languages*
A.B., Eastern Baptist College, 1953; B.D., Eastern Theological Sem-
inary, 1957; A.M., University of Pennsylvania, 1958

* Deceased June 17, 1961.

GEORGE JOHN EDBERG, *Assistant Professor of Romance Languages*
 B.S., Temple University, 1949; A.M., Universidad de la Habana,
 1953; Ph.D., University of Kansas, 1959

ROBERTO RUIZ, *Assistant Professor of Romance Languages*
 M.A., Universidad Nacional de Mexico, 1952

CHARLES CONWAY THARP, *Head of Technical Services with Rank of As-*
stant Professor, Library
 B.S. in Education, Southwest Missouri State College, 1948; M.S. in
 L.S., University of Illinois, 1951

INSTRUCTORS

BARBARA BROWN McDONALD, *Instructor in Biology*
 B.S., Simmons College, 1948; M.A., Columbia University, 1955;
 Ph.D., 1957

ROBERT BURBANK WILEY, *Instructor in Philosophy*
 B.S. in E.E., University of Manitoba, 1948; M.A., University of
 Toronto, 1954

FRANK A. MILLER, *Instructor in History*
 B.A., Swarthmore College, 1949

DIANE ISABEL DEWIS, *Instructor in Romance Languages*
 A.B., Mount Holyoke College, 1948; A.M., University of Kansas,
 1951

JUDITH FOLGER KNEEN, *Instructor in Mathematics*
 A.B., Bryn Mawr College, 1958; A.M., Radcliffe College, 1960

KATHLEEN WHITE BARBER, *Instructor in Physical Education*
 A.B., Syracuse University, 1947

HAROLD REESE GILLESPIE, JR., *Instructor in English*
 B.A., University of Texas, 1951; M.A., 1956

SUZANNE MYERS BROUGHTON, *Instructor in Physics*
 A.B., Bryn Mawr College, 1958; M.A., Brandeis University, 1960

JOHN WILLARD DOEBLER, *Instructor in English*
B.A., Duke University, 1954; Ph.D., University of Wisconsin, 1961

BETTIE ANNE DOEBLER, *Instructor in English*
B.A., Duke University, 1953; M.A., 1955; Ph.D., 1961

MARION ELIZABETH WILEY, *Instructor in German*
A.B., University of Vermont, 1951; M.A., Pennsylvania State University, 1961

LAWRENCE J. CLIPPER, *Instructor in English*
A.B., Brown University, 1953; M.A., George Washington University, 1958

DOLORES J. BRACKEN, *Instructor in Physical Education, Head Resident of Mathews House*
B.S., Slippery Rock State College, 1958

MARTHA C. CARSON, *Reference and Documents Librarian with Rank of Instructor*
A.B., Miami University, Oxford, Ohio, 1945; M.A., 1947; M.S. in L.S., Syracuse University, 1955

WILLIAM L. GRAY, *Instructor in Modern Languages*
A.B., Middlebury College, 1955; A.M., Middlebury Graduate School, France, 1956

HENRY WADE SEAFORD, JR., *Instructor in Sociology*
A.B., Wheaton College, 1941

FRANK FREDERICK MUELLER, JR., *Instructor in Music*
B.M., University of Michigan, 1959; M.M., 1960

ASSISTANTS

HOWARD MORRISON KISER, *Assistant Instructor, Reserve Officer Training Corps Unit, Sergeant First Class, U. S. Army*

ROBERT JOHN BEIERSCHMITT, *Assistant Instructor, Reserve Officer Training Corps Unit, Master Sergeant, U. S. Army*

JAMES H. PATTON, JR., *Assistant Instructor, Reserve Officer Training Corps Unit, Sergeant, U. S. Army*

RAPHAEL S. HAYS, *Tennis Coach*
A.B., Dickinson College, 1956

JOSEPH B. CARVER, *Assistant Director of Admission*
A.B., Dickinson College, 1959

GERALD K. MORRISON, *Assistant in Mathematics*
B.S. in E.E., Pennsylvania State University, 1960

WILLIAM DIXON GULLEDGE, *Assistant Instructor, Reserve Officer Training Corps Unit, Sergeant First Class, U. S. Army*

GEORGE FREDERICK WOOD, *Assistant Instructor, Reserve Officer Training Corps Unit, Master Sergeant, U. S. Army*

KONSTANTIN M. KALLY, *Assistant in Russian*
Pedagogical Institute, U.S.S.R., 1941 (B.A. equivalent); M.A., Indiana University, 1961

*LOIS ELVA BEEKEY, *Assistant in Russian*
A.B., Bryn Mawr, 1955; Graduate work, Moscow University, U.S.-S.R. (sponsored by Indiana University), 1959-1960

ANN REITER KENDALL, *Assistant in Physics*
B.S., Douglass College, 1945; M.A., Wellesley College, 1947

* Second Semester.

LIAISON GROUP

CARLISLE AREA JOINT SCHOOL SYSTEM

DAVID L. SWARTZ, M.Ed., *Superintendent of Schools*

MARK N. BURKHART, M.Sc., *Principal, Carlisle Senior High School*

HAROLD E. ECKERT, M.Ed., *Principal, Carlisle Junior High School*

*

COOPERATING TEACHERS IN STUDENT TEACHING

MR. ARTHUR W. BOLZE, M.A.	MRS. MARGARET M. MCADOO, A.B.
MR. GEORGE A. BRADLEY, M.Ed.	MR. JOHN J. McDERMOTT, M.Ed.
MRS. LOUISE BROUJOS, M.L.	MRS. JANET E. MCGINN, B.S.
MRS. MARCELLE COCKLEY, B.S.	MR. JOHN A. MOUNTZ, B.S.
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MR. RAYMOND S. GABLER, M.A.	MR. EDWIN P. PRETTYMAN, M.Ed.
MR. JAMES R. GEYER, M.Ed.	MR. MARTIN L. ROOK, B.S.
MR. JAMES K. GOTWALD, B.Mus.	MRS. OELLA SCOTT, A.B.
MRS. MYRTLE A. GROOME, A.B.	MR. MORRIS N. SHERK, A.B.
MRS. ARLENE GUERRIERO, B.S.	MRS. MARY LOU SWARTZ, M.A.
MR. DAVID M. HECKLER, B.S.	MISS ANNA MARY THOMAS, A.B.
MISS CATHERINE HUBLEY, M.Ed.	MR. FREDERICK THORNTON, M.Ed.
MR. FREDERICK A. KEGEL, B.S.	MR. RICHARD E. TROSTLE, B.S.
MR. WALTER J. KIRSCH, B.S.	MR. BRADFORD YAGGY, JR., B.S.

SOUTH MIDDLETON TOWNSHIP SCHOOLS

MR. OMAR C. SEALS, M.A., *Supervising Principal*

MR. WALTER D. HECKMAN, M.Ed., *Principal, South Middleton Township High School*

COOPERATING TEACHERS IN STUDENT TEACHING

MR. WILLIAM GEIMAN, M.Ed.	MRS. SARA WEIBLEY, B.S.
---------------------------	-------------------------

CONSULTANTS AND COOPERATING PRINCIPALS AND
TEACHERS IN THE DICKINSON COLLEGE
CHILD STUDY PROGRAM

CONSULTANTS

DANIEL A. PRESCOTT, Ed.D., *Child Study Center, University of Maryland*
HUGH PERKINS, Ph.D., *Child Study Center, University of Maryland*
MRS. ANNELEISE B. PRESCOTT, Ed.M.

COOPERATING PRINCIPALS, CARLISLE AREA JOINT SCHOOL SYSTEM

DAVID L. SWARTZ, M.Ed., *Superintendent of Schools, Carlisle*
ELMO L. MENTZER, M.A., *Principal, Penn Elementary School*
EVERS A. SHANK, M.Ed., *Principal, Hamilton Elementary School*
RAY SUNDERLAND, M.Ed., *Principal, Wilson Elementary School*
WARNER E. TOBIN, M.Ed., *Principal, Stevens Elementary School*
ROBERT G. VAN ZANDT, M.A., *Principal, Mooreland Elementary School*

COOPERATING TEACHERS, CARLISLE ELEMENTARY SCHOOLS

MRS. BARBARA BANKERT, B.A.	MR. BERTRAM HENRY, B.S.
MISS EVA BEATY, M.A.	MISS HELEN LINDSAY, M.Ed.
MRS. CAROLYN BERKSTRESSER, B.A.	MR. RICHARD OCKER, B.S.
MRS. ANNE BRINGMAN, B.S.	MRS. DOROTHY TROSTLE, B.S.
MRS. MARY BROWN	MR. CECIL TRUEBLOOD, B.S.
MRS. MARLENE FRANCE, M.A.	MRS. SHARON TRUMP, B.S.
MRS. JILL FREELAND, B.S.	MR. LYNN WATSON, M.Ed.
MISS LOUISE HECKMAN, B.S.	MISS EDITHMAE WILLIAMS, B.S.
MISS HAZEL WILSON, B.S.	

COMMITTEES OF THE FACULTY

The President and the Dean of the College are ex officio members of all committees except No. 3 and No. 4.

The present term of office of each individual expires June 30 of the year indicated.

1. GENERAL ADVISORY COMMITTEE

1962—Professors Graffam, Bowden, and Secor

1963—Professors Kellogg, Gates, and Wishmeyer

1964—Professors Eavenson and Jeffries

2. COMMITTEE ON ACADEMIC POLICY, PROGRAM, AND PRACTICE

1962—Professors Kirk, Kerr, Houston, and Brubaker

1963—Professors Schiffman, Long, Benson, and Flaherty

1964—Professors Sellers, Difford, Brougher, and Carson

3. COMMITTEE ON NOMINATIONS

1962—Professors Ramos and D. McDonald

1963—Professors Flower and Bonney

1964—Professors Long and Gordon

4. COMMITTEE ON ACADEMIC FREEDOM AND TENURE

1962—Professors Prinz and W. M. Miller

1963—Professors Yeagley, Kirk, and Flaherty

1964—Professors Schiffman and Gates

5. COMMITTEE ON ACADEMIC STANDARDS

1962—Professors Harper and Young

1963—Professor Naff

1964—Professor Sloane

6. COMMITTEE ON ADMISSION, SCHOLARSHIPS, AND STUDENT AID

1962—Professor R. N. H. Andrews

1963—Professors Erickson and Secor

1964—Professor Light

The Dean of Admission, the Dean of Men, the Dean of Women, and the Treasurer

7. REPRESENTATIVES ON STUDENT-FACULTY JUDICIAL COUNCIL

1962—Professors Beaty, Bruce Andrews, and Gordon

The Dean of Men and the Dean of Women, non-voting

OFFICERS OF ADMINISTRATION

HOWARD L. RUBENDALL, L.H.D.	<i>The President of the College</i>
GILBERT MALCOLM, LL.D.	<i>Provost of the College</i>
ROGER E. NELSON, M.A.	<i>Dean of the College</i>
GEORGE SHUMAN, JR., LL.D.	<i>Financial Vice-President and Treasurer</i>
ARTHUR D. PLATT	<i>Executive Assistant to the President</i>
PAULINE R. LAY	<i>Administrative Assistant to the President</i>
MARGARET P. DUNCAN, A.B.	<i>Secretary to the President</i>
BENJAMIN D. JAMES, M.A.	
.	<i>Dean of Admission, Dean of the Freshman Class</i>
WILLIAM H. BENSON, B.S.	<i>Registrar</i>
ALAN COUTTS, M.A.	<i>Dean of Men</i>
BARBARA S. WISHMEYER, M.S.	<i>Dean of Women</i>
CHARLES C. SELLERS, LITT.D.	<i>Librarian, Historian</i>
HENRY J. YOUNG, PH.D.	<i>Curator of Dickinsoniana</i>
NANCY J. LOUGHRIDGE, M.A.L.S.	<i>Head of Readers' Services, Library</i>
CHARLES C. THARP, M.S. IN L.S.	<i>Head of Technical Services, Library</i>
MARTHA C. CARSON, M.S. IN L.S.	<i>Reference and Documents Librarian</i>
ELMER C. HERBER, SC.D.	<i>Marshal</i>
DAVID I. GLEIM, M.A.	<i>Mace Bearer</i>
WINTHROP C. DIFFORD, PH.D.	<i>Assistant Mace Bearer</i>
FLINT KELLOGG, L.H.D.	<i>Assistant Marshal</i>
W. WRIGHT KIRK, PH.D.	<i>Assistant Marshal</i>
MILTON E. FLOWER, PH.D.	<i>Assistant Marshal</i>
WARREN J. GATES, PH.D.	<i>Secretary of the Faculty</i>
DAVID B. EAVENSON, B.S.	<i>Director of Athletics</i>
ALVA A. FRANCKLE	<i>Superintendent of Grounds and Buildings</i>
CARL J. ADAMS	<i>Assistant Treasurer</i>
GEORGE A. BOBLETZ	<i>Assistant Treasurer and Manager of Bookstore</i>

ROGER H. STECK, PH.B.	<i>News Services</i>
THOMAS H. YOUNG, JR., A.B.	<i>Alumni Secretary</i>
JOSEPH B. CARVER, A.B.	<i>Assistant Director of Admission</i>
FRANK S. BRYAN, M.D.	<i>College Physician</i>
EDWARD S. KRONENBERG, JR., M.D.	<i>College Physician</i>
WILLIAM C. TAFT, M.D.	<i>College Physician</i>
LUTHER M. WHITCOMB, M.D.	<i>College Physician</i>
ONETA M. FINK, R.N.	<i>Director of the Health Center</i>
ESTHER M. BUSHEY, R.N.	<i>Assistant Director of the Health Center</i>
FRED N. ROE	<i>Placement Officer</i>
JOSEPHINE W. MCCLUNG	<i>Head Resident, Morgan Hall</i>
HEBER R. HARPER, M.A.	<i>Head Resident, East College</i>
H. JESSE ARNELLE, A.B.	<i>Head Resident, Conway Hall</i>
DOLORES J. BRACKEN, B.S.	<i>Resident, Mathews House</i>
EMMA L. GRUBB	<i>House Director, Metzger Hall</i>
ELSIE R. HAGERLING	<i>House Director, Gibbs House</i>
AUSTRA TREICIS	<i>House Director, Drayer Hall</i>
HELEN B. MERRICK	<i>Assistant House Director, Drayer Hall</i>
ANN STOVER	<i>House Director, Biddle House</i>
BERNICE BAUMGARTNER	<i>House Director, McIntire House</i>
BEULAH M. THOMAS	<i>House Director, Sellers House</i>
JESSIE SCOTT	<i>Assistant to House Directors</i>
ELIZABETH W. GILLEN	<i>Assistant to House Directors</i>
REBA M. FAGEN	<i>Assistant to House Directors</i>
EVELYN A. COHICK	<i>Circulation Librarian</i>
ETHEL HEINE	<i>Order Librarian</i>
DOROTHY R. WEIGEL, B.S.	<i>Periodicals Librarian</i>
JEANNE L. HOCKLEY	<i>Secretary, Alumni Offices</i>

SPECIAL STAFF AND CONCERTS

JANUARY 31, 1961—JANUARY 9, 1962

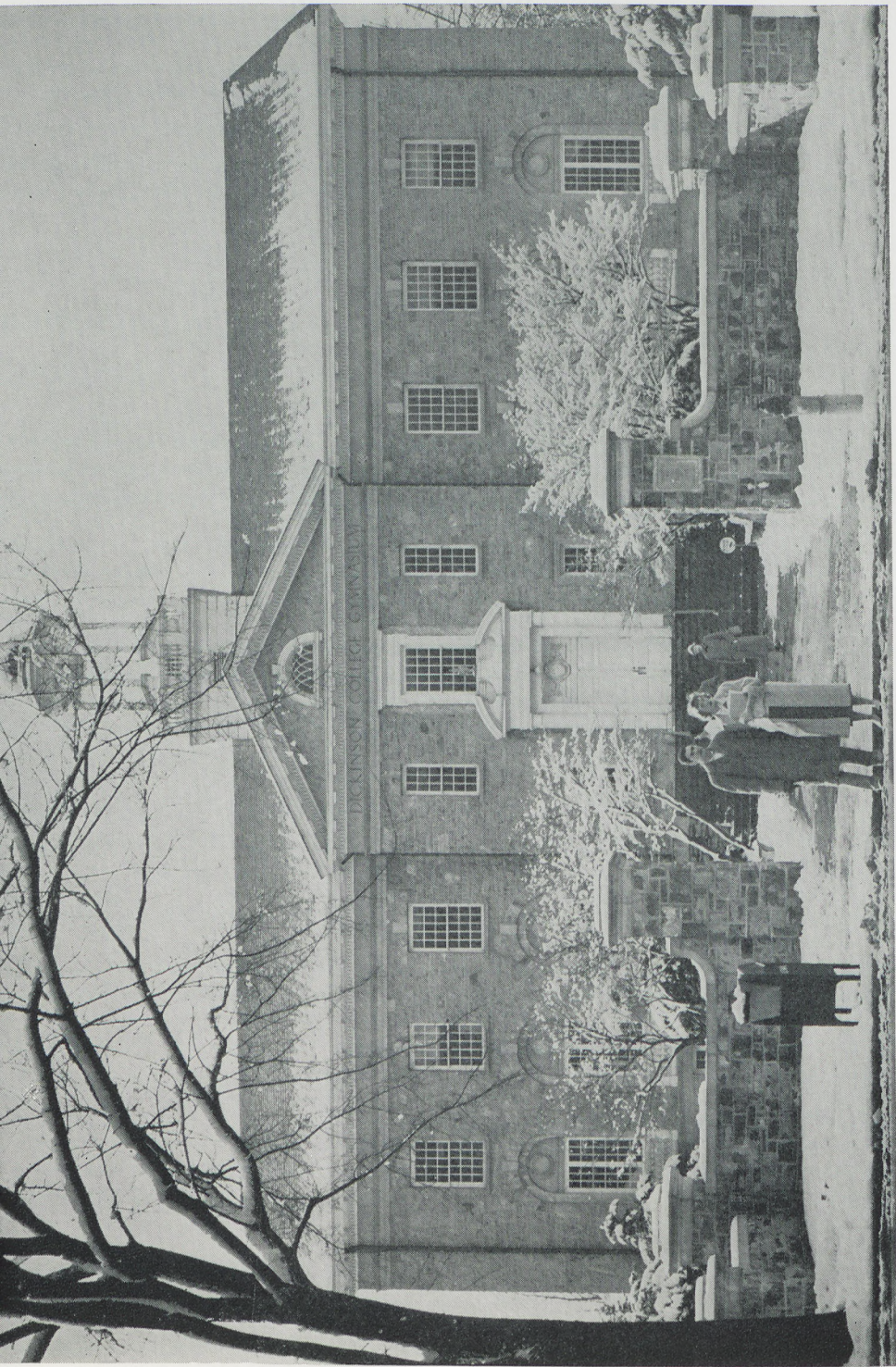
- RONALD PHILIPPS, B.D., *Clergyman, Exchange Pastor, London*
Worship Service, January 31
- KWANG LIM KOH, PH.D., *Korean Minister Plenipotentiary*
Assembly, February 2
- K. WARRISTON McCracken, M.Ed., *Clergyman*
Worship Service, February 7
- HERBERT GEZORK, PH.D., *Clergyman*
Representative Preachers Series, February 14
- HERMAN N. BENNER, *Chaplain, U. S. Army*
Worship Service, February 21
- REY DE LA TORRE, *Classic Guitarist* Concert, February 22
- CARL C. CHAMBERS, Sc.D., *Educator* Assembly, February 23
- HAROLD R. BOSLEY, PH.D., *Clergyman*
Representative Preachers Series, February 28
- KATHERINE E. MCBRIDE, PH.D., *President, Bryn Mawr College*
Scholarship Dinner, March 2
- KENNETH L. MAXWELL, PH.D., *National Council of Churches of
Christ in U. S. A.* Representative Preachers Series, March 7
- WILLIAM FRANKLIN SUNDAY, PH.D., *Clergyman*
Representative Preachers Series, March 14
- ROBERT GOLDSAND, *Pianist* Concert, March 15
- HARRISON ZIEGLER, III, *Clergyman* Worship Services, March 21
- KATHERINE MCGREGOR WALLIS, B.S., *Anthropologist*
Assembly, March 23
- WILLIAM MAURICE EWING, PH.D., *Geologist* . . Priestley Day, March 23
- THE LYNCHBURG COLLEGE PLAYERS Chapel, March 28
- PETER VAN DE KAMP, PH.D., *Astronomer* Glover Lecture, April 7

- MARTIN LUTHER KING, JR., PH.D., *Clergyman*
Representative Preachers Series, April 11
- JULIUS MARK, PH.D., *Clergyman*
Representative Preachers Series, April 18
- AGNES DE MILLE, *Choreographer*Lecture, April 20
- SETH R. BROOKS, PH.D., *Clergyman*Worship Service, May 2
- J. WESLEY ROBB, PH.D., *Educator*Assembly, May 4
- S. J. KNOX, PH.D., *Clergyman, Pastor, Dublin, Ireland*
Worship Service, May 9
- AARON E. GAST, PH.D., *Clergyman*Worship Service, May 16
- HAL HOLBROOK, *Actor*“Mark Twain Tonight,” May 17
- HOWARD L. RUBENDALL, L.H.D., *Educator*
Baccalaureate Address, June 4
- CHARLES KLEIN, LL.D., *President Judge of the Orphans' Court, Philadelphia*Commencement Address, June 4
- J. ARTLEY LEATHERMAN, S.T.B., *Clergyman*
Matriculation Service, September 24
- W. VERNON MIDDLETON, LL.D., *Bishop, The Methodist Church*
Representative Preachers Series, September 26
- GEORGE M. DOCHERTY, LITT.D., *Clergyman*
Representative Preachers Series, October 3
- CRAIG R. THOMPSON, PH.D., *Educator*
Phi Beta Kappa Recognition, October 3
- DUNCAN HOWLETT, LL.D., *Clergyman*
Representative Preachers Series, October 10
- LESTER A. WELLIVER, LL.D., *Clergyman* ..Worship Service, October 17
- CORNELIUS KRUSE, L.H.D., *Educator*Assembly, October 19
- RAVI SHANKER, *Sitarist*Recital, October 19
- JAMES H. HUGHES, S.T.M., *Clergyman*Worship Service, October 24

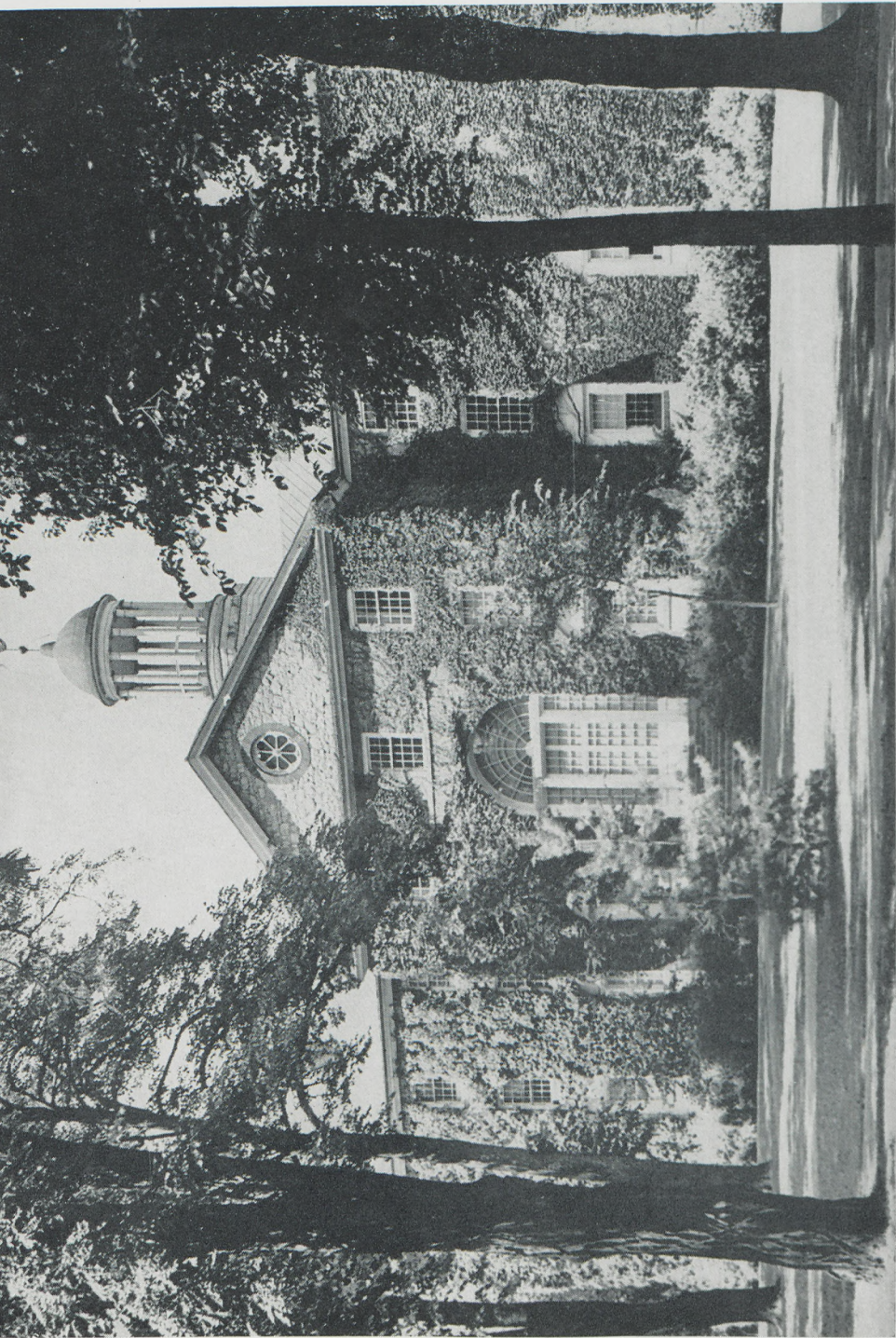
- INAUGURATION OF HOWARD LANE RUBENDALL, L.H.D., *Twenty-fourth President* October 28
- FRANCIS H. HORN, LL.D., *President, University of Rhode Island*
Inaugural Address, October 28
- ROBERT D. HERSHEY, S.T.D., *Clergyman*
Representative Preachers Series, October 31
- KANNAIAH KONURI, *Lecturer, India* Assembly, November 2
- JOHN R. WEINLICK, PH.D., *Clergyman*
Representative Preachers Series, November 7
- S. I. HAYAKAWA, PH.D., D.F.A., *Author* Lecture, November 8
- MOOREHEAD WRIGHT, *Industrial Executive* Assembly, November 9
- RUSSELL M. WEER, S.T.B., *Clergyman* .. Worship Service, November 21
- NICHOLAS NYARADI, *former Finance Minister of Hungary*
Assembly, November 30
- PITTSBURGH SYMPHONY ORCHESTRA Concert, December 4
- HAROLD K. SCHILLING, SC.D., *Physicist*
Religious Emphasis Program, December 5-6
- BLISS FORBUSH, LL.D., *Clergyman*
Representative Preachers Series, December 12
- GEORGE B. CREESEY, PH.D., *Geographer*
Phi Beta Kappa Visiting Scholar, December 14
- ROSCOE DRUMMOND, *Editor* Lecture, January 5
- RALPH W. SOCKMAN, PH.D., *Clergyman*
Representative Preachers Series, January 9



HISTORIC BUILDINGS, IVY-COVERED, SET THE ARCHITECTURAL STYLE OF THE CAMPUS



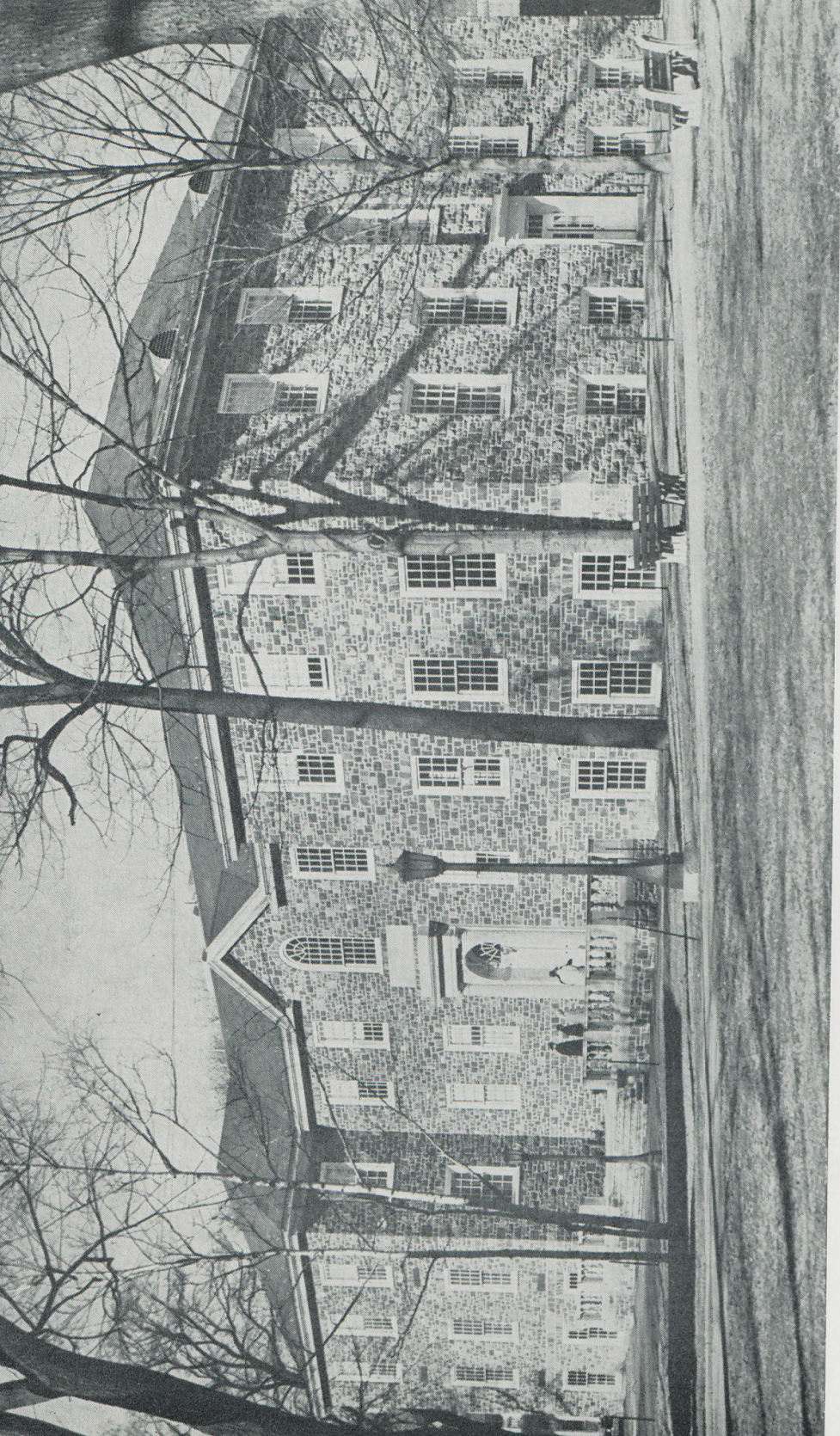
THE ALUMNI GYMNASIUM WAS A GIFT OF LOYAL DICKINSONIANS



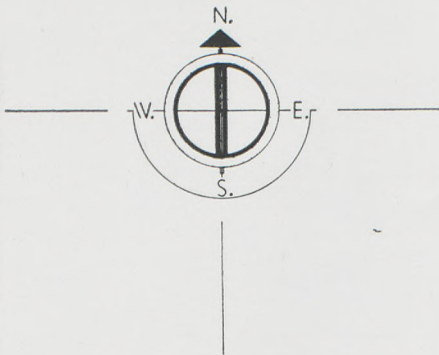
"OLD WEST," DESIGNED BY BENJAMIN LATROBE IN 1803, IS ONE OF AMERICA'S EDUCATIONAL LANDMARKS



DRAYER HALL
RESIDENCE FOR WOMEN, STANDS ON THE BENJAMIN RUSH CAMPUS



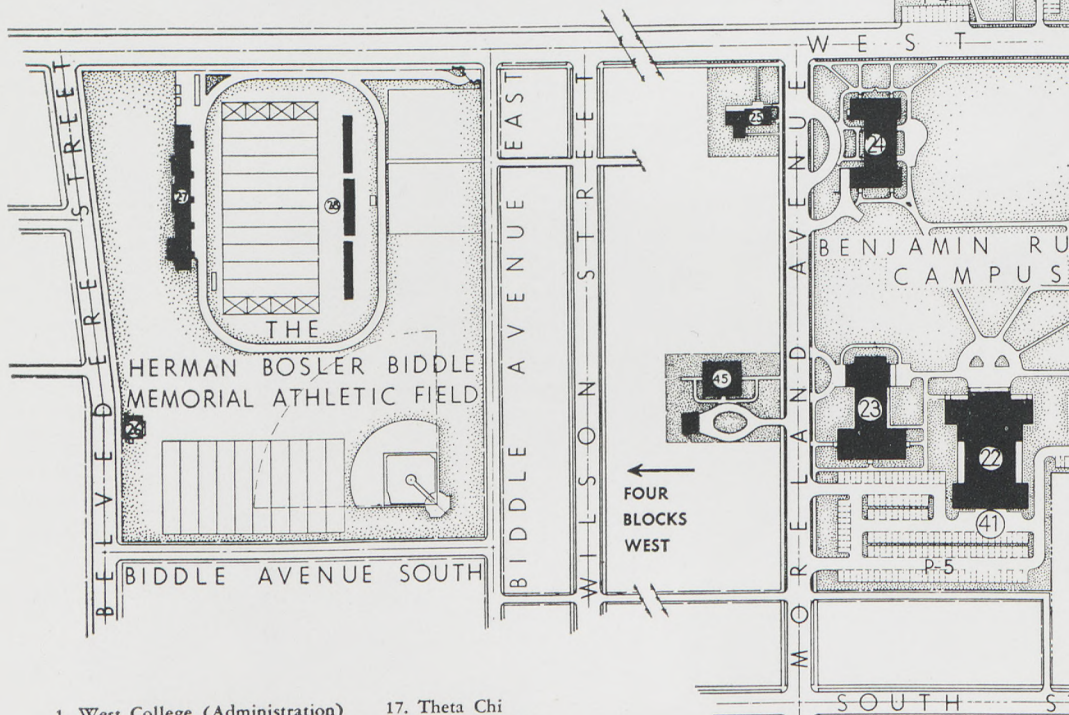
THE C. SCOTT ALTHOUSE SCIENCE HALL



G-1 Class of 1895 Gate
 G-2 Class of 1900 Gate
 G-3 Class of 1902 Gate
 G-4 Class of 1906 Gate

G-5 Class of 1907 Gate
 G-6 Gooding Gate—Class of 1905
 G-7 Class of 1910 Flag Pole
 G-8 Class of 1949 Gate (Future)

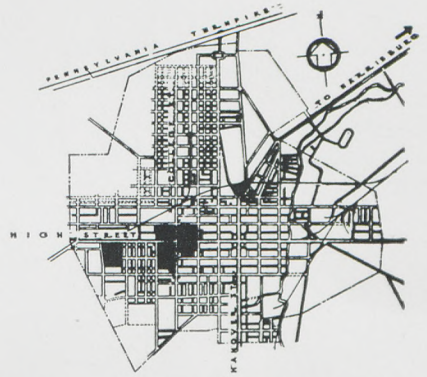
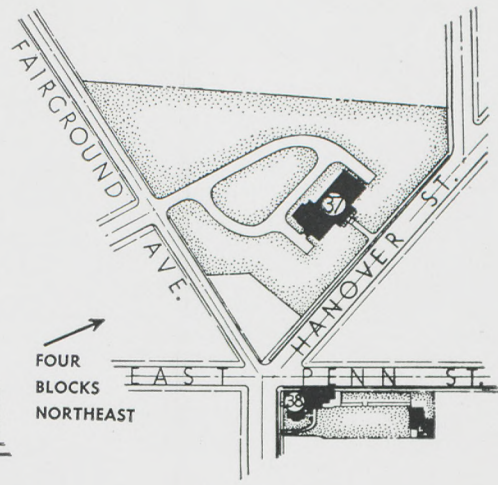
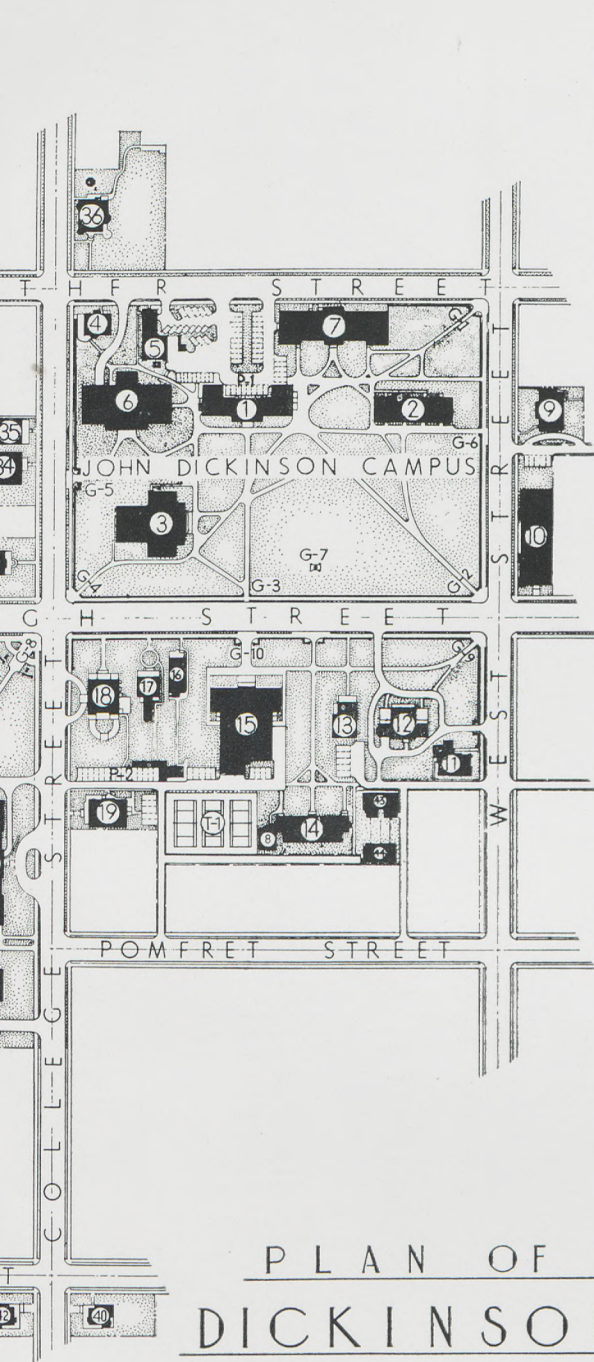
G-9 Class of 1915 Gate
 G-10 Class of 1935 Gate
 L- 1 Dickinson School of Law
 P- 1 to 6 Parking Area



1. West College (Administration)
2. East College (Dormitory)
3. Bosler Hall (Library)
4. Music Building
5. Heating Plant
6. Althouse Hall (Science)
7. Jacob Tome Scientific Bldg. and Planetarium
8. Squash Courts
9. Phi Delta Theta
10. Denny Hall (Classrooms)
11. Reed Hall
12. The President's House
13. Phi Kappa Psi
14. South College (Classrooms)
15. Alumni Gymnasium
16. The Dean's House

17. Theta Chi
18. Alpha Chi Rho
19. Sigma Chi
20. Drayer Hall (Dormitory)
21. Building (Future)
22. Activities Bldg.—Auditorium (Future)
23. Church and Chapel
24. Morgan Hall (Dormitory)
25. Beta Theta Pi
26. Equipment House
27. West Stands
28. East Stands
29. Health Center
30. Maintenance Building
31. Conway Hall (Dormitory)
32. Montgomery Hall (Faculty)

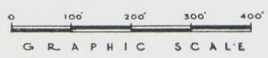
33. Biddle House (Dormitory)
34. Phi Kappa Sigma
35. Phi Epsilon Pi
36. Kappa Sigma
37. Metzger Hall (Dormitory)
38. Gibbs House (Dormitory)
40. McIntire House (Dormitory)
41. Baird Biology Bldg.
(Located on site of 22)
42. Sigma Alpha Epsilon
45. Mathews House (Dormitory)



MAP OF CARLISLE
 GRAPHIC SCALE

DICKINSON COLLEGE PROPERTY
 IN SOLID BLACK

PLAN OF THE CAMPUS
 DICKINSON COLLEGE
 CARLISLE — PENNSYLVANIA



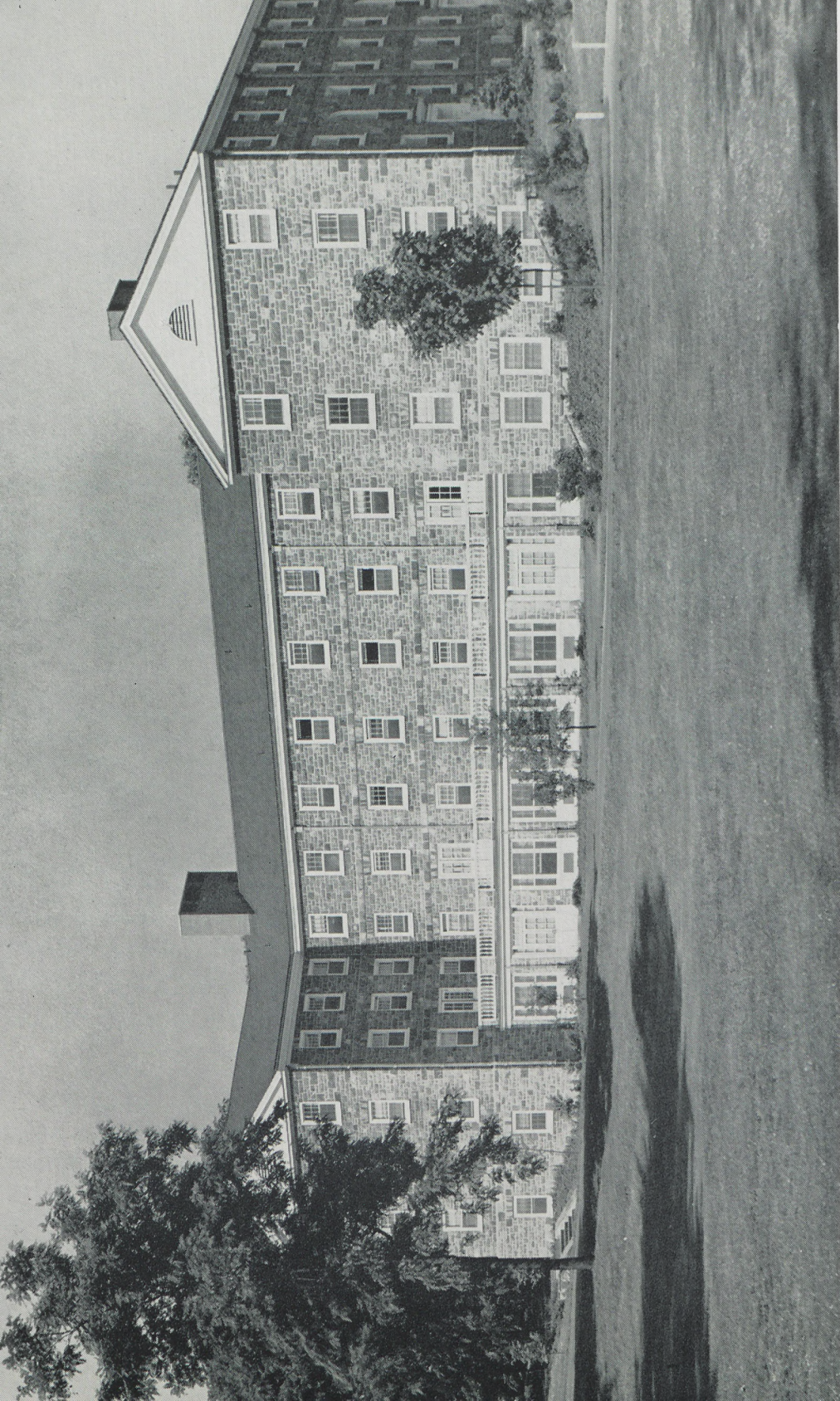
15 DECEMBER 1957



DICKINSON COLLEGE CHAPEL
AND
ALLISON METHODIST CHURCH



THE DICKINSON COLLEGE LIBRARY IS IN THE JAMES W. BOSLER HALL



MORGAN HALL
RESIDENCE FOR MEN, STANDS ON THE BENJAMIN RUSH CAMPUS



THE PHYSICS AND ASTRONOMY BUILDING CARRIES THE NAME OF JACOB TOME



THE HERMAN BOSLER BIDDLE MEMORIAL ATHLETIC FIELD

II

*Traditions, Facilities,
Activities, Admissions, Fees,
Programs of Study, Degree Requirements*

Dickinson College

1773-1962

THE COLLEGE PURPOSE

DICKINSON COLLEGE was chartered in 1783 "for the education of youth in the learned and foreign languages, the useful arts, sciences and literature." The College was pledged, at that time, to do its part in promoting the security and welfare of the new nation through "virtuous principle and liberal knowledge instilled into the minds of the rising generation."

To this pledge of its founders the College firmly adheres. As an independent liberal arts college in the Christian tradition, its faculty and students unite in the search for truth, in the nurture of intellectual vitality, and in the stimulation of philosophic and scientific inquiry. The College seeks to cultivate the mind toward depth of knowledge from which emerges mature and creative intellectual activity, and to foster that breadth of understanding from which arises a love and respect for humanity.

Dedicated to upholding, through education, the leadership and civic strength of a free people, Dickinson College accepts, "under the direction and government of Divine Providence," its obligation to meet the widening needs of today and tomorrow.

THE LIBERAL ARTS TRADITION

Dickinson College has defined its educational goals in its Purpose. The years intervening since the founding of the College, with their enriching knowledge of science and the arts and the demonstrated need for a spiritual background, have extended the college vision. A carefully selected faculty, a Christian philosophy, and broad social and cultural interests are coordinated to achieve these ends. Formal and infor-

mal training on the Dickinson Campus are thus directed toward creating men and women graduates of sound intellectual attainment, with integrity of character, a mature religious understanding, and a commitment to social responsibility.

HISTORICAL TRADITIONS

On March 3, 1773, Thomas and John Penn, Proprietors of Pennsylvania, conveyed to nine trustees a plot of ground in Carlisle "for the purpose of keeping and maintaining a Grammar School." This school for instruction in classical languages began under Henry McKinley and later came under the principalship of James Ross, a distinguished author of Latin and Greek grammars. The Grammar School continued in operation until it was absorbed by the College, which was incorporated by the Legislature of Pennsylvania on September 9, 1783. Seven of the nine Grammar School trustees became trustees of the College.

The prime mover in the effort to obtain a college charter was the distinguished Dr. Benjamin Rush of Philadelphia, a signer of the Declaration of Independence and one of the country's leading physicians. He had the College named for his friend, John Dickinson, Esq., "in memory of the great and important services rendered to his country." Dickinson was the author of the famous "Letters from a Farmer in Pennsylvania to the Inhabitants of the British Colonies," one of the most potent documents in arousing patriotism in the Colonies. He was also a general in the Revolutionary War, principal draftsman of the Articles of Confederation, President of the Supreme Executive Council of Pennsylvania, President of Delaware, and later a signer of the Constitution of the United States. When the charter was granted, Dickinson was elected President of the Board of Trustees, an office he held until his death.

Dr. Charles Nisbet of Montrose, Scotland, a Scotch Presbyterian and one of the great scholars of his time, was the first President of the College. From the beginning the new College prospered under the aggressive intellectual leadership of Dr. Nisbet. Twenty years after its inception the College had outgrown the confines of the Grammar School building. The site also was unsatisfactory and various efforts were made to obtain a better one, including that of the Carlisle Barracks which had been established by the British in 1751. The present main campus of the College, now named the John Dickinson Campus, was purchased from the Penn family in 1799 for \$151.50, and the construction of a large brick building was

begun. This building was destroyed by fire in 1803, and when the Trustees appealed for subscriptions for a new building, the appeal met with wide response, President Thomas Jefferson, members of his cabinet, and Chief Justice John Marshall being among the contributors. In place of the old building the present West College was erected as designed by Benjamin H. Latrobe, the architect of the Capitol at Washington. The new college building was constructed of native limestone and is today regarded as one of the outstanding examples of Georgian architecture in America.

By its charter the College is an independent, privately-controlled institution. Since 1833 it has been related to The Methodist Church, a relationship which has been, and is, mutually beneficial. With the exception of four trustees who are elected by the alumni, the Board of Trustees—a majority of whom are always Methodists—is a self-perpetuating body.

The College is pervaded with memories that revert to the distant past. On the corner where Denny Hall now stands, Washington reviewed the troops who in 1794 set out to quell the Whiskey Rebellion. The two literary societies, Belles Lettres and Union Philosophical, each over a century and a half old, count among their members former students including a President of the United States and Supreme Court Justices. Of these, James Buchanan, Class of 1809, as President of the United States, 1857-61, and Roger Brooke Taney, Class of 1795, as Chief Justice of the Supreme Court of the United States, 1836-64, headed their respective branches of government in the period of crisis preceding the Civil War. During the Civil War, on June 28, 1863, the Confederates occupied Carlisle and camped in front of Old West, the northernmost point reached by Confederate troops during the war. Among the Confederate troops were former Dickinson students at whose request Old West was put under protective guard. Two days later, in the shelling of Carlisle, East College and old South College were damaged by shellfire. Following the Battle of Gettysburg, the college buildings were used as hospitals for wounded men from the battlefield.

PREPARATION FOR GRADUATE STUDY

Dickinson College, since the year of its founding, has designed its curriculum to prepare a substantial body of its students for advanced study in graduate and professional schools. Evidence of the success of this enterprise is shown by the number of distinguished men and women

graduates of this college who hold positions of responsibility in the fields of science, medicine, law, education, and religion throughout the nation.

To identify, encourage, and guide likely candidates for graduate study, the College carries on a continuing program of activities through its advisory system beginning in the student's Freshman year and extending to graduation and sometimes beyond.

A student entering Dickinson with some form of graduate or professional study as an objective, should make this aim known to his assigned faculty Adviser in the early days of his residence at the College.

THE COLLEGE MACE

The Great Mace of Dickinson College is used on formal occasions as a symbol of the corporate authority of the College. The Mace is handsomely carved of cherry wood, forty-two inches tall. The head of the Mace bears the profile portraits of John Dickinson, Benjamin Rush, and Charles Nisbet, the first President of the College, together with the college seal and many historic symbols. Surmounting the head of the Mace is a bronze mermaid designed after the weathervane over West College. The staff of the Mace is ornamented by two bosses and a finial acorn, all of which are made from wood of the black locust tree under which George Washington stood when he reviewed his troops in 1794. The bosses are embellished with other college symbols and the acorn bears the name of the sculptor who carved the Mace and the name of the donor. In a spiral around the staff of the Mace appear the names and dates of all the Presidents of the College, from 1773 to 1959, beginning with Henry McKinley of the Grammar School to which the College traces its foundation.

THE JOSEPH PRIESTLEY CELEBRATION

Each spring a special commemoration, known as the Joseph Priestley Celebration, is held, at which time the Dickinson College Award in memory of Joseph Priestley, the discoverer of oxygen, is given to a distinguished scientist for his discoveries or contributions to the welfare of mankind. The Award is in the form of the Priestley Medallion, prepared of ceramic struck from the original molds made in 1775 by the first Josiah Wedgwood after a pen sketch of Priestley drawn from life in the same year by John Flaxman. The Award is accompanied by a draft for one

thousand dollars. Since its establishment in 1952 the Award has been presented to the following persons:

- 1952—Sir Hugh Stott Taylor, Dean of the Graduate School of Princeton University.
- 1953—Paul W. Burkholder, of the Class of 1924, in 1953 Osborne Professor of Botany at Yale University, Discoverer of Chloromycetin.
- 1954—Karl T. Compton, Chairman of the Corporation, Massachusetts Institute of Technology.
- 1955—Harold C. Urey, of the University of Chicago, Nobel Prize winner in Chemistry.
- 1956—Detlev W. Bronk, President of Rockefeller Institute for Medical Research.
- 1957—Edward Teller, General Advisory Committee, Atomic Energy Commission.
- 1958—George Bogdan Kistiakowski, Abbott and James Lawrence Professor of Chemistry, Harvard University.
- 1959—Willard Frank Libby, member Atomic Energy Commission.
- 1960—Glenn T. Seaborg, Chancellor and Professor of Chemistry, University of California.
- 1961—Maurice Ewing, Professor of Geology, Columbia University.
- 1962—Robert B. Woodward, Donner Professor of Science, Harvard University.

THE DICKINSON COLLEGE ARTS AWARD

In order that the College might recognize achievement in the arts as well as in the sciences, members of the faculty undertook the establishment of the Dickinson College Arts Award to honor Dr. William W. Edell for his services to the College as President. This Award in the arts, like the Dickinson College Award in the sciences in memory of Joseph Priestley, is in the form of a Wedgwood ceramic medallion and the sum of one thousand dollars. Trustees of the College have supported the purpose of the Award by personally raising an endowment of sufficient size to provide the annual fund. Since its establishment in 1959 the Award has been presented to the following persons:

- 1958-59—Robert Lee Frost.
- 1959-60—Eero Saarinen.
- 1960-61—Dame Judith Anderson.

College Library

THE College Library, located in Bosler Hall, contained 118,439 volumes and received 669 periodicals as of June 30, 1961. It has been designated as a depository for United States Government publications. No limit is placed on the number of books a student may borrow.

The Reference Room of 3856 volumes adjoins the Main Reading Room. The Reserved Book Room provides space for the study of class reading assignments. Microfilm, microcards, and recordings are also kept here, with a room and booths for their use nearby.

The Alexander A. Sharp Recreational Reading Room offers opportunities for browsing among books and periodicals of general interest. A tea and coffee hour, held in the Sharp Room on Thursday afternoons, brings students and faculty together.

Rare books, manuscripts, and other special collections, known collectively as "The Spahr Library," are located on the second and third floors of the building. They are under the supervision of the Curator of Dickinsoniana, whose office is in the Boyd Lee Spahr Room. In this room may be seen the original Dickinson College library, consisting of 1971 volumes given by John and Mary Dickinson in 1784. These volumes were selected by her husband from those which Mrs. Dickinson had inherited from her scholarly father and grandfather, and represent not only the learning and typography of the sixteenth, seventeenth, and eighteenth centuries, but the major part of one of the great book collections of Colonial America. Here also are about 40,000 manuscripts, including autographs of all the Presidents of the United States, 281 letters and documents of James Buchanan, of the Class of 1809, letters of political, literary, and artistic figures, and of founders and alumni of the College. Nearby, books by and about alumni, Faculty, and Trustees are shelved in a special arrangement. Visitors to the Spahr Room will see many relics of the long history of the College, including the unique col-

lection of eighteenth-century scientific equipment purchased by the Trustees in December, 1811, from the heirs of Joseph Priestley. Its central feature is the great compound burning-glass used by Priestley as a source of pure heat, and associated with his discovery of oxygen in 1774. That date and event mark the foundation of modern chemical science, and Priestley's burning-glass, air gun, telescope, and smaller laboratory equipment, in active use at Dickinson College for many years, represent a continuance on this campus of his work.

The Rare Book Room contains many of the Library's most valuable holdings. A part of this collection came as the gifts of Dr. Benjamin Rush and other founders of the College, and its growth, continued through the years, owes much to loyal friends of today.

On the third floor of the Library, the English Research Room, equipped by the Class of 1900, houses the Paul H. Doney Memorial, a collection of rare books in the field of literature. Here and in the manuscripts vault is the John Drinkwater Collection, the gift, supported by an endowment, of Roscoe O. Bonisteel.

The American History Seminar Room is equipped for study and classroom use with a reference and research collection of 2000 volumes.

The Art Seminar Room contains an art library of over 2,000 volumes, 9,150 slides and 2,010 photographs. Catalogue and storage space for the Library's collection of original works of art is also provided here. Important segments of it are the collection of contemporary fine arts prints donated by Meyer P. Potamkin, Class of 1932, and those of an earlier period given by the late Mrs. William B. Linn. Art and historical objects include the fragments of Greek sculpture given by Commodore Jesse D. Elliott in 1836, and the W. E. Minnich Collection of American Indian artifacts. Adjacent to the Art Seminar Room is a small gallery where special exhibits are hung.

The Alfred Victor duPont Chemistry Reading Room, given in 1957 by Irénée duPont, is located in nearby Althouse Hall. It enables the Library to extend its services to the laboratory, and so join in carrying forward the College's traditional emphasis on the sciences. This tradition, and the new peak it achieved under Professor Thomas Cooper, brought Alfred Victor duPont to Dickinson in the Class of 1818, and books pre-

mented by him as a student and as President of E. I. duPont de Nemours and Company are still preserved in the Library.

The Dickinson College Library Guild, composed of alumni and friends of Dickinson College, was organized in 1903 for the purpose of creating a permanent endowment for the college Library. In addition to the appropriation for the purchase of books and periodicals, the Library now receives an annual income of over \$5,000 from the Guild. By action of the Board of Trustees of the College all moneys contributed become a part of the permanent endowment fund of the Library, the proceeds of which are devoted solely to the purchase of books.

During orientation freshmen are introduced to the various departments and services available in the Library. In addition, in cooperation with the course "Introduction to Social Science," freshmen receive lectures and individual practice in basic research methods and library use. Upper classmen frequently receive additional specialized instruction in research bibliography.

A Library Handbook is obtainable at the Library and is especially recommended to entering students. It contains plans of the building, a description of the book collection, information on the services available to students, and a general guide to the use of library materials.

The Library is open from 7: 50 A. M. to 5: 45 P. M., and 6: 45 to 9: 45 P. M., except on Saturday, when it is open from 7: 50 A. M. to 5: 00 P. M., and on Sunday, when the hours are 2: 00 to 5: 00 P. M., and 6: 45 to 9: 45 P. M.

Buildings and Equipment

ACADEMIC BUILDINGS

THE plant of the College, consisting of twenty-eight buildings, is constructed chiefly of limestone, in Georgian design. The John Dickinson Campus, on which seven of the college buildings are located, is framed by a low limestone wall, most of which was erected in 1833. This adds to the distinctive charm of the landscape. The other buildings are grouped around this campus and on the Benjamin Rush Campus, formerly the Moore estate, a twelve-acre tract diagonally across from the older campus. The grounds, buildings, and equipment of the College are conservatively appraised in excess of \$7,000,000 and its invested endowment and other capital funds are worth approximately \$6,000,000 in market value.

WEST COLLEGE (1803), built of native limestone in Georgian architecture, is a four-story building located in the center of the John Dickinson Campus. It contains administrative offices, class and assembly rooms, the Presidential portrait gallery, and the spacious Memorial Hall. On the lower floor are the McCauley Room, the Durbin Oratory, conference rooms, the public relations office, and secretarial rooms. Administrative offices are on the first and second floors. The third floor is given over to classrooms and the Mathematics Computation Laboratory.

JACOB TOME SCIENTIFIC BUILDING (1884), a gift of the late Honorable Jacob Tome, of Port Deposit, Md., is of native limestone, trimmed with Ohio sandstone. It was completely renovated in 1958. It contains complete provision for the college Department of Physics and Astronomy.

JAMES W. BOSLER LIBRARY, originally a brick structure erected in 1885 in honor of James W. Bosler, Class of 1854, was rebuilt and enlarged in 1940-41. Native limestone was used and the architecture was changed to Georgian to conform with its surroundings. This library accommodates numerous reading and reference rooms and the main assembly room.

MUSIC BUILDING (1899), of limestone, houses the classrooms and laboratories of the Department of Music.

DENNY HALL (1905) contains recitation rooms, student publication offices, faculty offices, ROTC offices, and halls of the two historic literary societies which date back more than one hundred and seventy years.

ALUMNI GYMNASIUM (1929), of limestone, provides ample facilities for all indoor athletics and physical education. These include a white-tiled swimming pool 25x75 feet. The main auditorium seating 3000 is also used for commencement and alumni activities.

BAIRD BIOLOGICAL BUILDING (1937) is located on the Benjamin Rush Campus and is named in honor of Spencer Fullerton Baird, Class of 1840, professor, and former Secretary of the Smithsonian Institution. It is a three-story stuccoed stone structure housing the Department of Biology. It also contains a collection of South American birds, originally owned by Professor Baird, and the DeLude Shell Collection.

SOUTH COLLEGE (1948), of limestone, adjacent to the Alumni Gymnasium, is used as a recreation and classroom building. Squash courts are attached to South College.

DICKINSON COLLEGE CHAPEL AND ALLISON METHODIST CHURCH (1957), of limestone, on the Benjamin Rush Campus, is used jointly by the College and the Church.

THE C. SCOTT ALTHOUSE SCIENCE HALL (1957), of limestone, on the John Dickinson Campus is used as a Chemistry and Geology building and contains classrooms and laboratories.

THE ROSCOE O. BONISTEEL PLANETARIUM (1958), the gift of Roscoe O. Bonisteel, of the Class of 1912, is located in the Tome Scientific Building.

REED HALL (1958), located on the southeast corner of the campus, is a three-story stuccoed structure named after George Edward Reed, President of the College from 1889 to 1911. It is used to house the classrooms, offices, and laboratories of the Education and Psychology Department.

FILLER HALL (1961), located on North College Street, is a converted private residence named after Mervin Grant Filler, President of the College from 1928 to 1931. It is used to house the Electronic Language Laboratory, offices, and classrooms.

RESIDENCE HALLS

EAST COLLEGE (1836), of the same materials and style of architecture as West College, is a four and one-half story building, used as a residence for men and for faculty offices.

CONWAY HALL (1904) is a gift from the Honorable Andrew Carnegie, and is named as a tribute to his friend, Moncure D. Conway, Class of 1949, distinguished American writer and divine. It is used as a residence for men.

METZGER HALL (1881), located three blocks east of the main campus, is the residence for freshman women. It is a four-story brick structure.

GIBBS HOUSE, remodeled in 1937, the endowed gift of Rebecca McClure Gibbs, located diagonally across the street from Metzger Hall, is a three-story dwelling used as a residence for women.

BIDDLE HOUSE (1946), located on the edge of the main campus, is a three-story building used as a residence for women.

MCINTIRE HOUSE (1948), located on the corner adjacent to the Benjamin Rush Campus, is a two and one-half story building used as a residence for women.

DRAYER HALL (1950), a modern fireproof, four-story limestone residence for women, located on the Benjamin Rush Campus, houses 125 women students.

MONTGOMERY HALL (1953), east of Conway Hall, is a seven-apartment building which houses members of the faculty and their families.

MORGAN HALL (1955), a modern, fireproof, four-story limestone building located on the Benjamin Rush Campus, houses freshman men. Dining facilities for freshmen are located here.

MATHEWS HOUSE (1957), located on the edge of the Benjamin Rush Campus, is a three-story brick building used as a residence for women.

SELLERS HOUSE (1943), located on the main campus, is a three-story building used as a residence for women.

OTHERS

THE PRESIDENT'S HOUSE, a stately brick mansion at the southeast corner of the campus, was erected in 1833, and has been the residence of the Presidents of the College since 1888.

JOHN DICKINSON CAMPUS. This campus of eight acres lies in the western part of the Borough of Carlisle. It was purchased from the Penns by the Trustees in 1799. Prior to that time the site of the College was the old Grammar School property in another location in Carlisle, where instruction was begun in 1773. Upon the John Dickinson Campus and adjacent to it are grouped most of the principal buildings of the College.

BENJAMIN RUSH CAMPUS. The College added to its property in 1931 by purchasing "Mooreland," an estate of twelve acres lying just southwest of the main campus. On this campus, named the Benjamin Rush Campus in 1950, are located Drayer Hall, residence for women, Morgan Hall, residence for freshman men, the Baird Biological Building and the College Chapel.

THE HERMAN BOSLER BIDDLE MEMORIAL ATHLETIC FIELD, the initial gift of the Honorable Edward W. Biddle, Class of 1870, and Mrs. Biddle, in memory of their son, Herman Bosler Biddle, Class of 1903, is a field of 12 acres completely equipped.

HEALTH CENTER, located west of Conway Hall, is a completely equipped dispensary and infirmary.

THE MAINTENANCE BUILDING (1952), west of Conway Hall, houses the carpentry, electrical, painting, and plumbing workshops, and a garage for the college automobiles and trucks.

College Activities Program

PHI BETA KAPPA SOCIETY

ON April 13, 1887, the first chapter of the Phi Beta Kappa Society in Pennsylvania was organized at Dickinson College and named the Alpha of Pennsylvania. Seniors of high scholastic standing are eligible for membership and are usually elected upon completion of their college course. Certain of the highest ranking students, however, may be elected in September.

STUDENT GOVERNMENT

Students at Dickinson College govern wide areas of student life on the campus through representative student government. The Student Assembly, which consists of all students of the College, is the primary agency of this government and meets on call when required to act upon constitutional questions. The executive body of the Student Assembly is the Student Senate which carries on the day-to-day business of student government. As such it promotes the welfare of the student body by effecting a close union among students, and acts as an official liaison group between students and college authority. The Senate acts for the Assembly in scheduling and regulating all organized student activities. It controls the Student Activities Budget. Various standing committees operate for, and are directly responsible to, the Senate. Two student government agencies of major importance are the Student Social Committee and the Interfraternity Council. Both operate under the general oversight of the Student Senate with large freedom of action within their special fields of interest and concern.

STUDENT-FACULTY JUDICIAL COUNCIL

Matters of student discipline, except cases of failure to meet routine administrative directives or grave offenses involving moral integrity, are referred by the Dean to the Student-Faculty Judicial Council, which is composed of four students and three members of the faculty. The findings of the Council are binding upon all students and organizations of students brought before it on charges. On appeal the findings may be modified or set aside by the Faculty or by the Dean of the College.

WOMEN'S STUDENT GOVERNMENT

The Presidents' Council is the over-all student governing body for the women's residence halls. The Council consists of three council officers and the presidents of each of the women's residence halls. Meeting weekly with the Dean of Women, the Council acts on problems referred to it by the various house councils. The house council in each dormitory is responsible for the smooth operation of student government within the residence hall, takes care of minor infractions of house rules and works toward high morale and an informal social program within the residence.

PUBLICATIONS

THE DICKINSON ALUMNUS: published quarterly by the General Alumni Association.

THE DICKINSON COLLEGE BULLETIN: published four times a year by the College.

THE DICKINSONIAN: the student newspaper, published weekly during the college year.

THE DAILY SENATOR: a single sheet of announcements, scores, and late news, published five mornings a week by the Student Senate.

THE MICROCOSM: the college annual, sponsored by the Junior Class.

THE "D" BOOK: a handbook published annually for the information of new students.

THE HORNBOOK: published semi-annually, sponsored by the Belles Lettres Society.

ORGANIZATIONS

RELIGIOUS ACTIVITIES. Dickinson is a liberal arts college within the Christian tradition. It encourages all of its students to participate in the variety of opportunities available on the campus and in the Carlisle community for plumbing the depths of their respective faiths. The College strives to make its religious program intellectually relevant and to provide a suitable atmosphere for worship within a framework of Christian tolerance.

The Student Religious Affairs Council, under the direction of a committee of faculty members, plans and operates all of the college-wide religious activities on the campus. This Council is composed of four students

representing the student body at large and a representative of each of the following denominational organizations: Methodist Student Movement, Canterbury Club, Westminster Fellowship, Luther Club, Newman Club, Inter-Varsity Christian Fellowship, and Jewish Affairs Council. It plans the weekly chapels, special religious emphasis programs, Christian Service projects, and other aspects of the college-wide interdenominational religious program.

LITERARY SOCIETIES. The Belles Lettres Society and the Union Philosophical Society, founded in 1786 and 1789 respectively, are the oldest student activities on the campus and have contributed to the intellectual development of Dickinsonians for over a century and a half. The former is devoted to literary criticism, the latter to matters of political debate.

THE MERMAID PLAYERS present several full-length productions a year under professional direction, in addition to several seasonal programs. Opportunities exist for training and for practical experience in all phases of dramatic production, and membership is open to students, faculty members, and guests from the community. An annual feature is the presentation of the Gould Memorial Prizes in Drama.

THE DEBATE COUNCIL, under the guidance of a college-appointed director, participates in an extensive program of intercollegiate debating. All students are eligible for membership; those students with good scholastic averages are eligible to travel with the squad. Dual debates and tournaments are scheduled with other colleges throughout the East and South.

THE CHOIR. A mixed choir of sixty voices meets twice each week and presents several concerts each year. In addition, the choir sings in the College Chapel. A wide variety of music is performed representing many historical periods and styles, both sacred and secular.

THE CONCERT CHORALE. This ensemble of thirty voices, carefully selected for vocal potential and musicianship, presents several public performances each year, both on campus and off campus on tour and on television. This group also sings in the College Chapel.

THE MEN'S GLEE CLUB, a student-directed organization specializing in college songs, presents fall and spring concerts on campus, sings at various meetings and gatherings, and makes guest appearances off campus.

THE CONCERT AND MARCHING BAND. During the first half of the fall semester this fifty-piece ensemble devotes its attention to the prepa-

ration and presentation of programs at the college football games. After the football season the Band prepares concert music for presentation in its own concert programs or together with the vocal ensembles.

THE ORCHESTRA. The College Orchestra presents several concerts each year and frequently combines its resources with those of the choral organizations for the presentation of major works of music literature, including opera, oratorio, and cantatas.

THE INTERNATIONAL RELATIONS CLUB, established in 1932 under the auspices of the Carnegie Endowment for International Peace, promotes the study of contemporary international affairs and world problems. In its monthly meetings, reports are presented by students, faculty members, or guest speakers, and these are followed by an informal discussion. The Dickinson I.R.C. is a member of the Association of International Relations Clubs, sponsored by the Foreign Policy Association.

THE MOHLER SCIENTIFIC SOCIETY, through monthly meetings which are open to all students, fosters an interest in scientific subjects. Its programs are particularly stimulating to science majors and pre-professional students.

THE STUDENT NATIONAL EDUCATIONAL ASSOCIATION, BENJAMIN RUSH CHAPTER, offers all students considering teaching as a vocation an opportunity to hear distinguished educators and to participate in practical discussions on the teaching profession.

THE ASSOCIATION OF THE UNITED STATES ARMY ROTC COMPANY is open to all junior and senior ROTC students. Through its monthly meetings with Army guest speakers and field trips to Army installations an exchange of ideas and information is gained to bring about a better understanding of the proper role of the Army of the United States.

THE PERSHING RIFLES is open to all freshman and sophomore students. Through its weekly drill meets it encourages, preserves, and develops the highest ideals of the military profession.

THE "D" CLUB, composed of students who have won a varsity letter, recognizes athletic ability, encourages sportsmanship, and generally seeks to further the total athletic program of the College.

THE DICKINSON FOLLIES produces each spring either an original musical comedy, written and directed by the students with the assistance of the college instructor in drama, or a revival.

THE AQUATIC CLUB gives its members an opportunity to swim and also to organize and participate in water pageantry.

FRATERNITIES. Ten national fraternities have chapters at Dickinson—Phi Kappa Sigma, Phi Kappa Psi, Sigma Chi, Beta Theta Pi, Phi Delta Theta, Sigma Alpha Epsilon, Kappa Sigma, Alpha Chi Rho, Phi Epsilon Pi, and Theta Chi.

SORORITIES. Four national sororities are represented on the campus—Pi Beta Phi, Chi Omega, Phi Mu, and Zeta Tau Alpha.

THE INDEPENDENT MEN. Men who choose not to affiliate with any fraternity meet together periodically. They elect a senator to student government. Membership is open to all non-affiliated resident and non-resident male students.

HONORARIES. In addition to Phi Beta Kappa, there are seven national honorary fraternities and three local honorary societies at Dickinson:

TAU KAPPA ALPHA, a national honorary fraternity for forensic and scholastic attainments;

OMICRON DELTA KAPPA, a national fraternity for men students who have achieved distinction in campus leadership and have maintained good scholastic averages;

PI DELTA EPSILON, a national fraternity recognizing outstanding service in the field of journalism.

DELTA PHI ALPHA, a national fraternity honoring students in German studies;

ALPHA PSI OMEGA, a national honorary fraternity recognizing outstanding dramatic activity;

PI GAMMA MU, a national fraternity honoring students in Social Science;

PHI MU ALPHA SINFONIA, a national fraternity for men, honoring students in music;

RAVEN'S CLAW, a senior honorary society for men;

SKULL AND KEY, a junior society for men;

WHEEL AND CHAIN, a senior honorary society for women.

Admission

THE usual requirement for entrance to Dickinson College is the satisfactory completion of a secondary school program of at least fifteen units, including four units of English, two units of one foreign language, and two units of college preparatory mathematics. Of the remaining seven units, six are from academic courses.

In considering applicants for admission to the College, all of the following factors are important:

1. Personal application and school record on forms supplied by the College. (NOTE: Applicants are required to include with their final formal application a fee of \$10. This application fee is not refundable nor is it credited to any account.)

2. Recommendation of the secondary school principal or headmaster, and of others who know the applicant.

3. Personal interview with the Dean of Admission or with an appointed representative.

4. The tests of the College Entrance Examination Board:

- a. The Scholastic Aptitude Test is required of all applicants. Those who desire an early decision on their application are encouraged to take this examination in December or January of their senior year. (The results of this test taken in the junior year may be submitted upon the recommendation of the counselor.)

- b. The Achievement Tests (normally to be taken in January or March of the senior year) are required for placement purposes, as follows:

- (1) English—required of all applicants.

- (2) Language—Classical or Modern—required of all applicants who wish to continue in college the study of a language which they have taken in secondary school.

- (3) Mathematics—required for all candidates for the Sc.B. degree and for those other applicants who expect to continue their study of Mathematics in college.

Application and schedules for these examinations may be obtained by writing to the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

Unusual cases involving divergence from these requirements will be considered on an individual basis by the Committee on Admission. Students from other lands should submit requests as early as possible in order that they may be furnished a copy of the special instructions pertinent to them.

The Admission Office is open for interviews from 9:30 to 11:30 A. M., Monday, Friday, and Saturday, and 2:00 to 4:00 P. M., Monday and Friday. During the summer months and until Labor Day, the Admission Office (and all administrative offices) will be closed on Saturdays. Appointments in advance of the interview are appreciated.

Charges and Expenses

THE yearly General Charge at the College is \$1,150. All students are required to pay a Registration Fee of \$100 which is credited on the college bill. This fee is not returnable if the student cancels his or her registration.

NOTE—The General Charge is \$1,150 for the academic year of two semesters. However, the cost *to the College* is considerably over the amount. This leaves a balance which must be made up each year from gifts by alumni or friends or from income on endowment (which is composed of gifts made in former years). Those parents who wish to assist the College in meeting this "additional cost of education over General Charges" may make a gift to the College. This gift is tax deductible.

College bills for each semester are presented and are payable at the opening of the semester.

Failure to adjust college bills when due will result in exclusion from College, and no student can have an honorable dismissal or a certificate of advancement until bills have been adjusted and other reasonable obligations have been met.

The Trustees reserve the right at any time to amend or add to the regulations of the College, including those concerning fees and methods of payment, and to make such changes applicable to students at present in the College, as well as to new students.

DISCOUNTS—For two or more students from the same family, and for children of full-time ministers, a discount of 10 per cent is allowed on the General Charges account, but not on any other part of the college bill. No double discount is allowed. Liberal scholarship aid may be made available to ministerial students.

ROOMS—Dormitory rooms are secured to the students during term-time only, and occupants are responsible for damage to them. When students damaging property are unknown, the cost of repairs may be assessed toward the close of the college year upon the whole body of students, as a special damage account. Any student proved to be guilty of willful destruction of, or damage to, college property, may be required to pay not only the cost of replacement or repair, but also a fine as determined by the Faculty, said fine to be placed to the credit of the special damage account.

All freshman men other than day students are required to room in the college dormitory for freshmen. Male members of the other classes who are not day students must room either in the college dormitories or in the fraternity houses, or in college approved private homes.

FEES

Budget for student organizations for various student activities, including cultural affairs, athletics, and college publications. Per Semester . . .	\$30.00
Transcript of Record, extra copies each	1.00
Practice Teaching in High School	35.00
Graduation Fee for seniors, including use of cap and gown	10.00
Damage Replacement Account. (This will be returned in whole or in part depending upon the amount of damage.)	10.00*
Partial program, per semester hour	50.00
Late changing of courses (dropping one and adding another)	5.00
but not to exceed	15.00
Changing of schedule	15.00
Late writing of schedule	15.00
Administrative charges for Law elections, per hour	24.00
ROTC Fee, one semester only	5.00
Health Fee, services at Health Center and physicians' offices	15.00

* \$25 for men in dormitories.

APPLICATION FEE

Dickinson requires a non-refundable service charge of \$10 from all candidates for admission. This fee defrays in part the expense of investigating records, of advising applicants, and the performance of other services provided by the Office of Admission. It is not returnable and is not credited on any subsequent bill.

Checks should be made payable to Dickinson College

FOR MEN RESIDENT IN COLLEGE

Room rent, Men residents, per semester \$150.00

Resident men are assigned to dormitory space by the Dean of Men. The same price for all dormitory space, whether the quarters are old or new, is to permit an equitable system of room assignments without reference to family income.

Rooms are furnished with the basic pieces of furniture, and there is a study light outlet for each student, in addition to a ceiling light. Personal items such as laundry, books, blankets, sheets, pillow cases, towels, and personal toilet articles are furnished by the individual student. The Gordon-Davis Linen Service has our approval.

FOR WOMEN IN DORMITORIES

All women students, except those living with their husbands or relatives, are required to reside in college dormitories, and are charged \$1,974 for the year, payable \$100 at registration, \$987 at the beginning of the first semester, and \$887 at the beginning of the second semester. This provides for General Charges (\$1,150), Room (\$324), and Board (\$500). Personal items such as laundry, books, blankets, sheets, pillow cases, towels, personal toilet articles, and fees are not included in this account. The Gordon-Davis Linen Service has our approval.

Returning women students must pay the Registration Fee of \$100 prior to room selection for the ensuing year.

BOARD

All resident women students are required to board at the college dining halls. The residents of Metzger and Gibbs board at Metzger Hall.

The residents of Drayer Hall, Biddle, Mathews, Sellers, and McIntire Houses board at Drayer Hall or Morgan Hall.

All freshman men are required to board at the college dining hall, Morgan Hall. Boarding arrangements include dining room service on a semester basis. The charges for the semester are \$250.

The College also reserves the right to make a proportionate increase in board charges in the event that there shall occur a general increase in food costs.

A Snack Bar is operated in South College where students may purchase breakfast, lunch, and dinner at nominal prices.

HOW MUCH DOES IT COST TO GO TO DICKINSON COLLEGE?

Just how much it will cost for a year at Dickinson College depends on the individual student. The general answer is, "Usually from \$2,100 to \$2,150 minimum for a year of two semesters." The amount spent above these figures will depend on the expenditures the student feels he must make over and above the minimum costs.

The table of estimated expenses appearing below will give an idea of the minimum costs. The table does not include, of course, what may be spent for clothing, entertainment, or other optional incidental items.

ESTIMATE OF NECESSARY EXPENSES OF THE AVERAGE STUDENT

	<i>Men</i>	<i>Women</i>
*General Charges	\$1,150	\$1,150
Student Budget	60	60
Damage Replacement Account	25	10
Books and Supplies, Estimated	85	85
Room Rent	300	324
Board—College Dining Room	500	500
Health Fee	15	15
	<hr/>	<hr/>
Total—Men	\$2,135	
Total—Women		\$2,144

Fraternity costs range from \$75 to \$100 additional expense.

* Payable \$100 at registration, \$575 at the beginning of the first semester, and \$475 at the beginning of the second semester.

PART-TIME STUDENTS

Full time students are those carrying at least 12 hours of instruction per week. Part-time students are those carrying fewer than 12 hours of instruction per week.

Auditors' fees are the same as those listed for credit courses. Full time students are not required to pay audit fees.

PLAN OF PAYMENTS

All charges and fees are due at Registration. Where a satisfactory plan is presented to the Treasurer of the College, a student is permitted to register under a deferred payment agreement. The Girard Trust Plan, The Insured Tuition Payment Plan, and other approved plans are acceptable. Additional information on these plans is obtainable from the Admission and Treasurer's offices.

WITHDRAWAL FROM COLLEGE

A student in good standing is entitled to honorable withdrawal at all times. The date on which the Dean of the College approves the student's withdrawal form is the official date of withdrawal. A student desiring to withdraw voluntarily from the College must obtain from the Registrar an Application for Withdrawal. This form must be properly filled in and returned to the Registrar before the student leaves the campus. Otherwise, he will forfeit his right to honorable withdrawal until he may have been reinstated by faculty vote. No refunds will be made by the Business Office until the Registrar's Office certifies that the withdrawal procedure has been properly completed.

Every college has many expenses of a continuing nature, such as plant maintenance and faculty salaries. In order to plan and maintain these services over the entire year, it is essential that the annual income from fees be assured. It is understood, therefore, that students are entered for the entire college year.

If a student called away during the semester by an emergency finds it impossible to resume his work, he must notify the Registrar's Office of his voluntary withdrawal immediately. Unless the notice is filed with

the Registrar within three weeks, the student will forfeit his right to honorable withdrawal.

If the withdrawal occurs before the end of the semester, the student is obligated for General Charges as follows:

	<i>First Semester</i>	<i>Second Semester</i>
Two weeks or less	\$215	\$770
Between two and three weeks	330	865
Between three and four weeks	445	960
Between four and five weeks	560	1,055
Over five weeks	675	1,150

No refund will be allowed on room rentals and fees, but unused board at \$5.00 per week may be refunded.

SUMMER SESSIONS: Scholarships and discounts are not applied to accounts in summer session charges. If withdrawal occurs before the end of the summer session, the student is obligated for General Charges as follows:

One week or less	40 per cent
Two weeks or less	80 per cent
After two weeks	100 per cent

Special consideration is given men called into military service involuntarily whereby fractional credit may be given for work carried at a passing level.

No reduction will be allowed for absence of students withdrawn for unsatisfactory conduct or scholarship.

SOLICITATIONS

Agents are not permitted to solicit students on the campus or in the dormitories without first securing written permission from the Treasurer's Office and from the Dean of Men or the Dean of Women, as appropriate.

LOSSES

Dickinson College will not be responsible for losses from fire or theft that may occur in or on college property.

General Information

REGISTRATION—Under normal conditions, registration is completed prior to the beginning of classes. However, changes in registration (or late registration) are permitted provided they are made within the first fifteen class days.

CHAPEL—Chapel and assembly services are held twice a week. All students are required to attend a specified number of such services. In addition, voluntary midday devotions are held daily in the Durbin Oratory in West College.

GUIDANCE—The student is the center of the College's educational program. Counseling begins with the pre-registration interview with the Dean of Admission. Each entering freshman is assigned to a Faculty Adviser who will assist him in adjusting to college life, in academic planning, and in meeting such other problems as may arise in his first two years. To help attain a better understanding of each freshman as a person, he is given psychological tests early in the school year. The results of these tests are made available to him through the office of the Director of Testing and Counseling, where further aid is given as needed in coping with problems of educational, vocational, or personal counseling. A corps of highly selected upperclassmen serve voluntarily in the residence halls as Student Counselors. When the student is accepted as a department major, which occurs ordinarily at the close of his second year, the Chairman of the Department becomes his academic adviser. Completing the formal advisory staff, which is headed by the Dean of the College, are a number of specialists, including the Dean of Men and the Dean of Women, the General Counselor, the Clinical Psychologist, the Director of Testing, the Religious Adviser, the Placement Officer, and advisers in such pre-professional interests as medicine, law, and engineering. This formal advisory system does not, however, replace the individual faculty member, who daily performs a wide variety of informal counseling made possible by the limited enrollment of the College. The whole guidance program is thus designed to help the individual to effective adjustment and successful accomplishment.

GOVERNMENT AND DISCIPLINE—Students are expected to conform to the requirements of good morals and good citizenship. In the absence of

specific regulations, the Faculty is charged with passing on matters respecting the general life of the students in the College. In practice, however, the regulation of student body life is left largely to the students themselves. Among the regulations of the College is the following: "In particular, any use of intoxicating liquor on college property or in the fraternity houses, failure to give truthful testimony to an officer of the College, and dishonesty in college work are considered very serious offenses, and may lead to dismissal."

The College reserves to itself the right to remove from its rolls at any time a student who proves unsatisfactory, or to require a student to withdraw if it is felt that the student is out of sympathy with the spirit and ideals of the College, even though he may not have broken any formal rules.

It is understood that the foregoing conditions and other rules and regulations of Dickinson College are accepted by the parents and guardians of Dickinson College students and by the students themselves.

SELF-HELP EMPLOYMENT—Self-help through employment in various departments of the College is available to students, application for which should be made to the office of the Treasurer. As it is assumed that the acceptance of such employment is to assist the student in meeting his college bills, any amounts so earned are subject to application to the student's account as long as he has any unpaid balance.

PLACEMENT—The interest of the College in its students does not terminate with graduation. The Dean of Men is the Placement Director of the College and arranges for student interviews on and off the campus with the personnel officers of many large business and industrial organizations. The Dean of Men is assisted in these duties by the Placement Officer. In addition, the Dean of Men and the Dean of Women offer vocational counseling and guidance to students who request this service. Vocational guidance materials and company information are kept up to date in the Placement Office and in a special section of the Library.

The placement of teachers in secondary schools is coordinated through the office of the Dean of Men and the Department of Education and Psychology.

HEALTH SERVICE—The College Health Center is designed to provide care to all full time students in case of minor illness or accident. A dis-

pensary and waiting room are located on the first floor. The second and third floors contain wards and private rooms for patients. A registered nurse lives at the Health Center and is in charge.

The medical staff of the College consists of four physicians and two registered nurses. The service of the physicians is available without cost to all full time students under regulations fixed by the College. The College provides these health services, but does not assume legal responsibility for the health of its students. For special treatment, laboratory tests, x-rays, and serious illness, the Carlisle Hospital is available. Students who do not wish to use the health benefits of the College may make other arrangements on their own responsibility.

In cases of prolonged illness, the student and his parents or guardians must make direct arrangements for medical service and care. The college service does not cover these cases, nor does it cover fees for specialists or for special prescriptions or treatments, laboratory tests, x-rays, etc.

ACCIDENTS—Arrangements have been made by the College with the Insurance Company of North America to provide accident insurance policies. The annual fee for such policies is \$14 for men and \$7 for women. All students are required to avail themselves of this offer, since the College can assume no liability for expenses connected with accidents. In case a student requests a release from this regulation because he already has insurance, or because his parents do not desire it, a statement from his parents concerning this is necessary.

Programs of Study and Lectureships

AS a liberal arts college, Dickinson provides its students with a broad general program of study. This plan gives assurance that each student becomes familiar with the major areas of human knowledge and gains the background for realization of the aims set forth in the college purpose. After these foundations are laid he is encouraged, particularly in the upper levels of college work, to seek a deeper understanding of a particular field through specialized study.

Special attention is given to students preparing for graduate work on the university level, law, medicine or dentistry, the ministry, and teaching. Plans of study have been carefully worked out to meet graduate or certification requirements for these fields. Excellent background courses are also offered for government, business, social service, journalism, medical technology, and similar careers. Each year a high percentage of the graduating class continue formal study in professional and graduate schools throughout the country. All students, however, whether interested in a terminal liberal arts education or in aiming at intensive specialization later on, must comply with the rules governing distribution and concentration of courses.

THE HEALING ARTS

Through the years many Dickinson students have been prepared for graduate study in the healing arts. Schools of medicine, dentistry, osteopathy, optometry, podiatry, and nursing vary in their admission requirements. Admission to professional schools is generally based on a student's college record, the recommendations of faculty members, scores attained on an aptitude test, and interviews by an admission officer. Pre-medical and pre-dental students are advised to elect chemistry in their first year and to register with the Premedical Adviser before completing their course schedules.

COLLEGE-LAW SCHOOL PROGRAM

A student at Dickinson College planning a law career has distinct advantages. The location of the Dickinson School of Law (a separate

institution) contiguous to the college campus has made possible the development of a combined college-law program which has the approval of the State Board of Law Examiners of Pennsylvania.

Under this program a student, if accepted by the School of Law, may register for six semester hours of law in his Junior year; and (1) if his college average in the Junior year is between 2.25 and 2.75, and (2) if his grades in all his law courses are 60% or better, he may elect 18 hours of law courses in his Senior year. If his average in his college courses in the Junior year is 2.75 or better and his grades in all law courses are 60% or better, he may elect from 18 to 24 hours of law courses in the Senior year, thus making possible the completion of a full year of law by the time he meets the requirements for graduation from the College. A student who elects no law courses in the Junior year may take as many as six hours of law in his Senior year. In no instance may the total number of class hours carried simultaneously in the College and Law School exceed 18 hours per week.

The combined plan is available only to the student who enters College not later than the beginning of the Sophomore year. If he elects the combined plan, he must register his intention with his department Adviser and secure permission of the Dean of the College and the Dean of the Law School. The student taking the combined program is expected to elect English 25 and to complete the college requirements of distribution and concentration. An extra charge, payable to the Treasurer of the College, is made if the student elects courses in the Law School to count toward his college degree.

THE MINISTRY AND RELIGIOUS SERVICE

A broad base of training in the liberal arts is required as undergraduate preparation for entrance either into a theological seminary or into a training school for religious social work. No particular course is prescribed for preministerial students. They may profitably major in any of the following fields: Philosophy, Psychology, English, Sociology, History, or Political Science. To be adequately prepared for advanced studies in a theological seminary, they should elect two years of Greek and from 15 to 18 hours in the Department of Philosophy and Religion. A thorough training in Public Speaking is also recommended.

PROGRAMS FOR ENGINEERING STUDENTS

Dickinson College furnishes a program for engineering students which combines the advantages of the smaller liberal arts college with the training to be secured at a large urban engineering school. By arrangement with the University of Pennsylvania Engineering Schools, Rensselaer Polytechnic Institute, and the Case Institute of Technology, the College offers a five-year course, the first three years of which are spent at Dickinson, the final two at the engineering school selected. A student may secure a degree both in liberal arts and in engineering through this five-year program.

The combined plan is available only to the student who enters the College not later than the beginning of his Sophomore year. Candidates for an engineering program should inform the Dean of Admission of Dickinson College that they wish to apply for this program. The student should also indicate which of the three engineering schools he wishes to attend.

TEACHER CERTIFICATION

The Department of Education offers undergraduate courses leading to the Provisional Secondary Teacher's Certificate. The Department provides the courses necessary for certification in many states, including Pennsylvania, New Jersey, New York, Maryland, and Delaware. There is a minor offered in Education. The student preparing to teach completes his major in other departments of the College.

THE WASHINGTON SEMESTER

In cooperation with The American University and an allied group of colleges and universities, this College offers four high-ranking juniors the opportunity to study during the spring semester at The American University, Washington, D. C. These students should preferably be majors in Economics, History, Political Science, or Sociology and should have taken Political Science 11-12. Application must be made before October 15 to the coordinator of the Washington Semester program.

THE ARMY ROTC PROGRAM

DEPARTMENT OF MILITARY SCIENCE

In 1952 the Department of the Army approved the establishment of a General Military Science unit of the Army Reserve Officers' Training Corps at Dickinson College. Highly qualified commissioned and non-commissioned instructors were assigned and the Corps was organized. The unit has since grown steadily in size and stature and today is training approximately two-thirds of all physically qualified incoming male students of the College in military fundamentals, citizenship, and leadership. Participation in the ROTC is strongly encouraged by the college authorities in the belief that the privilege of American citizenship carries with it an obligation to share in the preservation of the Nation. Graduates who have completed their ROTC requirements are commissioned 2nd Lieutenants in either the Reserves or, if they are qualified and request it, in the Regular Army.

The ROTC curriculum as offered at Dickinson is primarily designed to train young men in leadership and to prepare them for positions of responsibility and authority, initially in the military, and subsequently in their civilian pursuits. The courses endeavor to develop and strengthen individual character by stressing such moral and spiritual values as patriotism, loyalty, discipline, honor, personal integrity, orderliness, and service to country and community.

Participation in the ROTC at Dickinson is voluntary. Once accepted into the program, however, students are required to complete the two-year Basic Course (Freshman and Sophomore); and if they apply to continue and are accepted into the Advanced Course, they are required to complete the two upper-division years (Junior and Senior) leading to a Commission. (For information concerning subjects taught, refer to "Military Science" under Courses of Instruction in Section III of this BULLETIN.)

Veterans may, upon application and with the approval of the Professor of Military Science, be admitted to the ROTC program with advanced standing.

Students in the ROTC program are furnished complete uniforms and military text books at government expense. Individually tailored U. S.

Army Officer uniforms are issued to all regularly-enrolled Advanced Course students, and these become the property of the students when they are commissioned.

Advanced Course students receive an allowance of approximately \$27.00 a month during their Junior and Senior years. These students are required to attend an Army Summer Camp for six weeks—normally between their Junior and Senior years. During the camp period they are furnished equipment, clothing, food, and medical care and receive approximately \$125.00 in pay. They also receive a monetary travel allowance to and from camp.

Students accepted in the Corps are, upon signing a draft-deferment agreement, deferred from active military service under the provisions of the Selective Service Act of 1948 for the duration of their enrollment in the ROTC program.

Completion of the Advanced Course of instruction and graduation from College qualifies an individual for appointment as a Second Lieutenant in the United States Army Reserve. Following completion of his education, which may, if desired, include certain recognized graduate work, a Commissioned Graduate is required to honor his Military Service obligation by serving six months (or two years) on active duty as an Officer in the Active Army. An outstanding graduate who desires to make the Army his career may apply for a direct Commission in the Regular Army.

SUMMER SCHOOL

The College offers a summer program consisting of two terms. A student may obtain college credits applicable to his degree requirements at Dickinson College or acceptable for transfer credit at other academic institutions. In addition to the traditional academic subjects, the College provides in its summer programs certain specialized offerings of distinctive character as set forth in the separate summer bulletin. Copies of this bulletin may be obtained from the Dean of Admission.

THE DICKINSON COLLEGE ADULT EDUCATION PLAN

As a community service, Dickinson College provides each fall and spring a program of noncredit evening courses with a cultural or vocational focus. While generally ten weeks in duration, these courses vary

according to the special interests of the individuals or groups served. For announcements of the courses in any specific series inquiries may be addressed to the Director, Adult Education Plan.

STUDY ABROAD

Students desiring to take a year's work abroad may be granted credit for this work provided the Dean of the College approves it *in advance* and the student presents a satisfactory certificate of accomplishment. This plan is available only to the student who enters the College not later than the beginning of his Sophomore year.

LECTURESHIPS

The following lectureships are endowed or otherwise provided for:

THE JAMES HENRY MORGAN LECTURES. This lectureship "in the Classics and in College Teaching" is endowed by funds set aside in 1936 by the Board of Trustees in grateful appreciation of the distinguished services of the late James Henry Morgan of the Class of 1878: Professor of Greek, 1884-1914; Dean, 1903-14; President, 1914-28, 1931-32, 1933-34.

THE BOYD LEE SPAHR LECTURES IN AMERICANA. This lectureship was established in 1947 "in recognition of the importance of Dickinson College and its graduates in the large history of American Culture," and was named in honor of Boyd Lee Spahr, A.M., LL.D., D.C.L., of the Class of 1900, in grateful appreciation of his continuous interest in the Dickinson College Library and of his numerous contributions to historical collections.

THE GLOVER MEMORIAL LECTURES. This lectureship "in Science" was established in 1958 in memory of John Glover of New Castle on Tyne, England, the inventor of the "Glover Tower," and in memory of his son and grandson, Henry and Lester Glover, by the late Dr. John D. Yeagley and by Mrs. Yeagley of York, Pennsylvania.

THE REPRESENTATIVE PREACHER SERIES. This lectureship brings to the college campus, as an important part of Chapel Worship Services, outstanding American preachers of all faiths.

Curriculum

THE College offers two parallel courses in the Liberal Arts and Sciences leading to the Degrees of Bachelor of Arts and Bachelor of Science.

A. REQUIREMENTS FOR GRADUATION

1. One hundred and twenty-four semester hours of academic work satisfactorily completed; an average of at least 1.75 in all courses taken at Dickinson College.

2. Completion of the required courses and satisfaction of the requirements for both distribution and field of concentration.

3. Seven semesters of chapel attendance.

4. Four semesters of Physical Education. Beginning with the Class of 1965 (those students entering in September 1961) this requirement must be met by the end of the Junior year. It may be satisfied by the completion of two years of Military Science.

5. A minimum of 60 semester hours of course work in residence, including at least 24 of the 30 hours immediately preceding graduation. (Work completed under such cooperative programs of study as the College-Law School Program, the binary engineering program, and the Washington Semester shall be construed as work in residence.)

6. The Institutional Testing Program of the Graduate Record Examinations.

B. REQUIRED COURSES

1. English 1-2 or English 2a.

2. For the Degree of Bachelor of Arts, Social Science 11-12. The Dean of the College in consultation with the Adviser may set this requirement aside in the cases of particular students who provide evidence acceptable to the Dean that they have had educational experiences in one or more of the social sciences substantially equivalent to that offered in Social Science 11-12. When any student is relieved of this requirement the Dean of the College shall notify the student of the fact in writing and send a copy of the notification to the Registrar and to the student's Adviser.

3. For the Degree of Bachelor of Science, Mathematics 1-2, or Mathematics 5-6, or Mathematics 11, 12.

4. Language Requirements:

a. A candidate for a degree is required to complete work in a foreign language, classical or modern, through the intermediate level. A degree candidate whose native tongue is not English may be relieved of this requirement by action of the Foreign Students Committee and the Dean of the College. In such cases the Dean of the College shall notify the student of the fact in writing and send a copy of the notification to the Registrar and to the student's Adviser.

b. Any student entering a course in a foreign language which he has studied for two or more years in a secondary school must take the appropriate College Entrance Examination Board Achievement Test. The student will be placed in the appropriate college course on the basis of the score he achieves on this examination. (See page 51 for CEEB Achievement Tests required of entering students.)

C. REQUIREMENTS FOR DISTRIBUTION

1. Candidates for the Degree of Bachelor of Arts or Bachelor of Science must satisfy the requirements for distribution (in courses numbered above 10) as follows:

Group A—Two semester courses in literature totaling not less than five credit hours in the following subject areas: English, French, German, Greek, Latin, Spanish.

Group B—Three semester courses totaling not less than seven credit hours in the following subject areas: Economics, History, Political Science, Sociology, Social Science.

Group C—Two semester courses totaling not less than five credit hours: one course in Philosophy or Religion, one course in Education or Psychology.

Group D—One semester course totaling not less than two credit hours in the following subject areas: Dramatic Arts, Fine Arts, Music, Speech.

Group E—One course in a laboratory science: Biology 11-12 or 23-24; Chemistry 11-12; Geology 11-12; Physics 11-12; or Physical Science 13-14.

D. REQUIREMENTS FOR FIELDS OF CONCENTRATION

1. The fields of concentration consist of:

(a) A required major consisting of 30-32 credit hours of academic work in the major field as specified by the chairman of the department concerned. Beginning with the class of 1963 (those students graduating in 1963) no more than six (6) hours of work with a grade of D may be applied toward this requirement.

(b) An optional minor consisting of 18-20 credit hours of academic work in another field as specified by the chairman of the department in which that field falls. (If a student successfully completes the requirement for one or more minors this fact will be noted upon his permanent record and will appear on any transcript that he may request.)

2. The major field of concentration must be chosen prior to the end of the student's Sophomore year.

3. Acceptance of the student as a major is determined by the chairman of the department concerned, who then becomes the accepted student's Adviser.

4. A student who is not accepted for a major field of concentration at the end of his Sophomore year will be granted an additional semester in which to qualify. If at the end of this additional semester he has still not been accepted, he will be required to withdraw from College without the privilege of readmission.

5. Only courses numbered above 10 will be accepted in satisfaction of the requirements of a field of concentration. A course may not be counted for both the major and the minor, nor may any part of the work taken in the student's major department be counted towards the fulfillment of the minor except in those instances in which a department offers two or more related but distinct areas of study.

6. Candidates for the Degree of Bachelor of Science are required to select a major in Biology, Chemistry, Geology, Mathematics, or Physics,* and complete 12 additional semester hours of work in courses numbered above 10 in one or more of the other four science departments.

* Candidates for the Degree of Bachelor of Arts may also major in these fields.

E. SCHEDULE

1. FRESHMAN AND SOPHOMORE YEARS:

a. The normal academic load for freshmen and sophomores is 30-36 semester hours.

b. The courses taken during the Freshman and Sophomore years are to be so selected that at the end of his Sophomore year a student will have completed all of the required courses and a reasonable number of the requirements for distribution. In addition, the courses elected should be preparatory to the student's expected fields of concentration.

c. The courses open to freshmen as electives are listed below (see the detailed course descriptions for a brief discussion of course contents and for information concerning additional courses open to sophomores):

ELECTIVES OPEN TO FRESHMEN

Biology	.....	11-12
Chemistry	.....	11-12
Dramatic Arts	....	11, 12, 21, 32
Education	.....	(with permission of the instructor) 21
English	.....	(for students who have successfully completed 2a) 11-12, 15, 18, 19, 35
Fine Arts	.....	15, 16
Geology	.....	11-12
History	.....	11-12 (and for students who have completed 11) 21, 22, 23, 24, 25
Mathematics	.....	1-2, 5-6, 11, 12, 13, 14, 29 (a year of mathematics is required of candidates for the Degree of Bachelor of Science)
Military Science	..	1-2
Music	.....	13, 14, 15, 16, 24, 31, 42, 81-82, 83-84
Philosophy	.....	11
Physical Science	..	13-14 (with permission of the Dean of Admission)
Physics	.....	11-12
Psychology	.....	11
Public Speaking	..	23, 24
Religion	.....	15, 16
Social Science	....	11-12 (required of candidates for the Degree of Bachelor of Arts)
Sociology	.....	60, and (with permission of the instructor) 32

2. JUNIOR AND SENIOR YEARS:

a. The normal academic load for juniors and seniors is 32-34 semester hours.

b. Students must register in their Junior year for any of the required courses which they have not completed satisfactorily.

c. In addition, courses must be elected to meet the requirements for distribution and fields of concentration.

d. The remainder of the student's schedule consists of free electives as necessary to make up the total academic load of 124 semester hours.

3. AUDITING:

a. Any student in good academic standing and who is registered for 16 or more hours during a semester may, with the approval of his advisor and of the instructor involved, register to audit up to 6 additional hours. A student who is so auditing may after the end of six class weeks and prior to the beginning of the fourth class week before examinations, with the written approval of both his instructor and advisor, convert his audit registration to regular registration for credit. Students who are registered for less than 16 hours, may with the approval of the Dean of the College and of the instructor involved, audit courses but do not have the privilege of converting to regular registration for credit.

F. INDEPENDENT STUDIES AND DEPARTMENT HONORS

In each major field of concentration there is provided an Independent Studies Program intended to give the student an opportunity for a self-directed experience, an introduction to research, and practice in reporting the results of his investigation. Programs in an area which embraces more than one department may be arranged by the Dean of the College in consultation with the chairmen of the departments concerned.

1. The Independent Studies Program shall be open to those seniors whose work in the department or field of concentration has averaged at least 3.25 *and* whose cumulative average for all work at the College is at least 2.50 at the middle of the Junior year.

2. An essential element of the work is a written report giving the results of the student's investigations, due one month prior to the student's graduation.

3. High quality is expected both in the independent study and in the report. Work of distinction, as determined by the department, shall receive a grade of A and the student shall be graduated "with honors" in his field of concentration or, in the case of interdepartmental honors, "with honors" in interdepartmental studies with the specific fields named. Record of this distinction will appear on the diploma and on all transcripts.

4. If a student's work fails to meet the standards for graduation with honors, he shall receive a letter grade of B or below consistent with the quality of his work.

5. Each department will determine whether the six hours credit for the course of Independent Studies shall count toward satisfaction of requirements for the major.

G. RESPONSIBILITY OF STUDENTS

Responsibility rests with the student for the election of such courses as will satisfy the requirements of the College for graduation.

H. SELECTED ACADEMIC REGULATIONS *

1. CHANGES IN REGULATIONS:

The College reserves the right to change its regulations, courses of study, and schedule of fees, without previous notice to the student.

2. CREDIT FOR COURSE WORK:

Credit for courses is based on the assumption that two hours of study accompany each period of recitation or lecture.

3. CREDIT FOR WORK AT OTHER COLLEGES:

- a. The College may grant credit for work completed at other accredited colleges on previous arrangement with the chairman of the appropriate department, the Adviser, and the Dean of the College. To receive credit the work must be at least C or its equivalent quality credit value. This work will count as hours credit toward graduation but the grade will not be used in computing the average for graduation.

* More detailed regulations are available in a separate pamphlet.

b. The College will accept no more than 12 credits for any one summer period and no more than 18 credits for summer study at other institutions.

4. EFFECT OF REPEATED ABSENCE:

No academic credit will be given for a course in which the student has been absent more than the equivalent of six weeks in a semester.

5. REGULATIONS GOVERNING GRADES:

Grades shall be reported as:

A	Excellent	F	Failing
B	Above Average	S	Satisfactory
C	Average	U	Unsatisfactory
D	Below Average	I	Incomplete

6. COMPUTATION OF AVERAGES:

a. In the computation of averages the following scale of Quality Credit Points will apply:

<i>Grade</i>	<i>Points</i>
A	4
B	3
C	2
D	1
F	0

b. A student's average shall be computed on the basis of all academic work which he has taken at Dickinson College during any specific period.

The average shall be computed by multiplying the earned quality credit points by their respective semester hours, and dividing the total of these products by the sum of the semester hours of all academic work taken, this result to be carried to two decimal places.

7. MINIMUM ACADEMIC STANDARDS:

a. A regular student is required to meet the following minimum standards of academic quality during his course:

- (1) Freshman: An average of 1.50

- (2) Sophomore: An average of 1.75 for the year or a 1.75 two-year average
- (3) Junior: An average of 2.00 for the year or a 1.75 three-year average
- (4) Senior (to be graduated): An average of 1.75 in all courses taken at Dickinson College

b. A student who fails to meet the minimum standard for his class will be required to withdraw. He may apply for readmission after attending an accredited college elsewhere for one regular semester (not a summer session) and after meeting the following minimum specifications: completion of a program consisting of at least 15 hours in courses approved in advance by the Dean of the College and the attainment of an average of at least 2.25, with no grade lower than "C." Military service or satisfactory employment may be substituted for such scholastic experience. If after reinstatement the student fails to meet the minimum standard for his class he will be required to withdraw and will be barred from readmission.

c. The Freshman, Sophomore, and Junior years are interpreted as the first, second, and third College Years of attendance as a regular student. (The College Year extends from the opening of College in the fall to Commencement.)

d. In the case of a student entering Dickinson with advanced standing because of work done at other institutions, the Committee on Admission will determine his status as to class or year of attendance. In all other cases involving such irregularities as work done outside the Dickinson College Year, the Dean of the College will determine the student's class or year of attendance.

e. The Senior year is normally the fourth year of college attendance, but it may occur earlier or later. Specifically, a student meeting the quality standards is advanced to the Senior year at the end of the semester in which his total credit hours have reached 90. If this total has not been reached at the end of the second semester of his Junior year, he may be allowed one additional semester as a junior. If he cannot enter the Senior year after this additional Junior semester, he will be required to withdraw.

f. A student is expected to be graduated at the end of his Senior year. If he has not satisfied the requirements for graduation at the end of the second semester of his Senior year, he may be allowed one additional semester as a senior. If he cannot be graduated at the end of this additional Senior semester, his status will be considered by the Faculty.

8. HONORS UPON GRADUATION:

a. A student who in his total program attains an average of at least 3.75 shall be awarded his degree *summa cum laude*.

b. A student who in his total program attains an average of 3.50 but less than 3.75 shall be awarded his degree *magna cum laude*.

c. A student who in his total program attains an average of at least 3.25 but less than 3.50 shall be awarded his degree *cum laude*.

9. CREDIT FOR MILITARY SERVICE AND DRAFT:

a. Credit for Military Service:

Credit will be given toward the college requirement of four hours in Physical Education on the basis of two hours of credit for each year of military service.

b. Credit for Men Drafted:

In order to assure the largest possible credit to male students who are called to active duty in the armed forces before the end of the semester, Dickinson College is prepared to give credit for work done, on the following basis:

(1) Immediately upon receiving notification of induction into active service the student must notify his Adviser, who will arrange for tests to be given in the subjects taken by the student.

(2) Upon receiving a passing grade, a student will be given credit toward graduation in the following manner: for the completion of two weeks in the semester, two semester hours of credit will be given; three weeks, three semester hours of credit, etc. If the student has completed eight weeks or more, he may, provided his average is 1.75 or better, be given full credit for the semester (*i. e.*,

if the student receives a general average of 1.75 he will receive a full semester's credit for each course in which he receives a passing grade). It will be essential, however, for the student to do good classroom work to be eligible for credit. Students with incomplete work in any course will not be eligible for credits under this plan.

III
Courses of Instruction

Courses of Instruction

FOR all courses, except where otherwise indicated, the number of hours of academic credit per semester equals the number of hours of classroom work per week.

The classification of courses is as follows:

1. Normally odd number courses will be given in the fall semester and even number courses in the spring semester. Exceptions to this general practice will be noted in the printed course schedule.

2. When two course numbers, followed by a single description, are separated by a comma, either course may be taken without the other, though the two are normally taken together as a year-course.

3. When two course numbers, followed by a single description, are separated by a comma and preceded by an *, the first course may be taken without the second, though the two are normally taken together as a year-course. The first course, however, is a prerequisite for the second.

4. When two course numbers, followed by a single description, are separated by a hyphen, the work of the two semesters constitutes an integral, indivisible year-course in which credit will not be given for the work of a single semester.

The order in which courses may be elected is determined by the prerequisites stated under the course descriptions. Courses designated by words such as "open to Sophomores and above," "open to Juniors and Seniors," or "open to Seniors only," may not be taken earlier than the year indicated. An exception to this rule may be made by the chairman of the appropriate department for students of high scholastic ability or advanced standing.

BIOLOGY

PROFESSOR HERBER

ASSISTANT PROFESSORS McDONALD, OGREN, AND JEFFRIES

DR. McDONALD

A knowledge of the principles of animal and plant life is considered important to an understanding of mankind. The introductory course in general biology provides the liberal arts student with a broad view of the principles and functions of animal and plant life. Elective courses, more specialized, build on this foundation; they are not considered ter-

minimal but are designed to introduce major concepts and experimental methods, and to provide a basis for student interest. They present a more detailed examination of classification, structure, function, evolution, development, and heredity. Advanced electives serve as suitable prerequisites for graduate work in zoology, botany, medicine, dentistry, and allied fields. Through work in special problems, honors, or seminar, research interest is developed.

*11, 12. GENERAL BIOLOGY 8 credit hours

Biological principles with special emphasis on the physiology of animals and plants. Recent experiments in physiology, embryology, bacteriology, and genetics are discussed. Three hours classroom and three hours laboratory per week.

23. INVERTEBRATE ZOOLOGY 4 credit hours

Principles of structure, classification, evolution, physiology, and the development of such animals without backbones as helminths, molluscs, annelids, and arthropods. Two hours classroom and four hours laboratory per week.

Open to Sophomores and above. Prerequisite: 11-12.

24. VERTEBRATE ZOOLOGY 4 credit hours

Examination of vertebrate evolution, development, structure, and physiology by the comparative method. Two hours classroom and four hours laboratory per week.

Open to Sophomores and above. Prerequisite: 11.

32. MAMMALIAN ANATOMY 3 credit hours

Detailed examination of the gross structure and functions of the mammalian body. Emphasis on bone, muscle, nerve, and circulation. Dissection of the cat. One hour classroom and four hours laboratory per week.

Open to Juniors and Seniors. Prerequisite: 11. Recommended: 24.

34. MICROBIOLOGY 3 credit hours

The taxonomy, physiology, and heredity of bacteria, molds, and viruses. Laboratory projects are designed to provide technical competence in handling microorganisms. Two hours classroom and two hours laboratory per week.

Open to Sophomores and above. Prerequisite: 11.

41. HISTOLOGY 3 credit hours

Microscopic anatomy of mammalian organs and tissues with an introduction to the techniques of fixing, sectioning, and staining. One hour classroom and four hours laboratory per week.

Open to Sophomores and above. Prerequisite: 11-12. Recommended: 24 or 32.

44. EMBRYOLOGY 3 credit hours

The experimental approach to the study of animal development. Two hours classroom and two hours laboratory per week.

Open to Sophomores and above. Prerequisite: 11.

45. PHYSIOLOGY

3 credit hours

The physical and chemical basis of biological activities. Laboratory includes experiments in biochemistry, enzymology, and the operation of stimulation and recording apparatus. Two hours classroom and two hours laboratory per week.

Open to Sophomores and above. Prerequisite: 11. Chemistry 11-12 is strongly recommended.

51. GENETICS

4 credit hours

Principles of heredity and their impact on population dynamics, evolution, and human society. Laboratory projects are designed to acquaint students with modern techniques for conducting genetic experiments with living organisms. Two hours classroom and four hours laboratory per week.

Open to Sophomores and above. Prerequisite: 11.

53. PARASITOLOGY

3 credit hours

A study of parasites in relation to disease; their life histories and geographical distribution. Two hours classroom and two hours laboratory per week.

Open to Sophomores and above. Prerequisite: 11-12. Recommended 23.

54. FIELD BOTANY

2 credit hours

Lectures present the major factors in distinguishing families and species of plants; laboratory consists of studying algae, fungi, and trees in winter and flowers in spring. Conservation problems are discussed. One hour classroom and two hours laboratory per week.

Open to Sophomores and above. Prerequisite: 11-12.

60. RADIATION BIOLOGY

4 credit hours

Physical aspects of radiation biology, including production and detection of nuclear radiations, and radiation characteristics and ionizing power as clues to biological effects. Introduction of problems in radiation health protection such as health dosage units, hazards, and safety precautions. Cytological effects, underlying chemical changes, and principles in the use of tracers. Also named Physics and Astronomy 60.

Prerequisite: 11-12; Physics 11-12; and permission of the instructor.

81, 82. SPECIAL PROBLEMS

2 or 4 credit hours

Laboratory work, research aspect emphasized. Topics may be assigned for investigation. A minimum of 4 hours per week.

Open only to Juniors and Seniors majoring in Biology.

92. SEMINAR

2 credit hours

Reading, conference, writing, and oral presentation of reports.

Open only to Juniors and Seniors majoring in Biology.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: 30 semester hours, including Biology 11-12. In addition, Chemistry 11-12 is required. Chemistry 51-52 may be substituted for 8 hours in Biology.

Minor: 18 semester hours, including Biology 11-12.

CHEMISTRY

PROFESSOR ROGERS

ASSOCIATE PROFESSORS GLEIM AND NAFF

ASSISTANT PROFESSOR ERICKSON

ADJUNCT ASSISTANT PROFESSORS OLDENBURG,

ALLEN AND HENSCHEN

The work in General Chemistry is planned to meet the needs of the student for whom this is the terminal course in chemistry as well as the needs of the student who plans to take additional courses in the department.

The advanced courses are planned primarily for students who are preparing for medicine, teaching, industry, and graduate work.

Professional Training in Chemistry

Dickinson College is included in the list of institutions approved for undergraduate training in chemistry by the American Chemical Society. The ACS minimum requirements in chemistry include four basic year-courses in general chemistry, analytical chemistry, physical chemistry, and organic chemistry, together with at least one year of advanced work. Any deficiency in any of the basic courses is to be compensated for by a corresponding increase in a more advanced course. The additional requirements are courses in physics, mathematics through integral calculus, a reading knowledge of German, a year of English composition, and the equivalent of a full semester devoted to the study of the humanities.

*11, 12. GENERAL CHEMISTRY

4 or 8 credit hours

In the first semester, study of chemical principles with emphasis on atomic structure, the periodic system, and the chemical bond. In the second semester, oxidation-reduction, solutions, and chemical equilibrium are introduced. The laboratory work of the second semester will consist of qualitative analysis. Three hours classroom and four hours laboratory per week.

***21, 22. ANALYTICAL CHEMISTRY**

4 or 8 credit hours

The first semester is devoted to principles of stoichiometry, applications of chemical equilibrium to analytical problems, pH, solubility equilibria, and methods of volumetric and gravimetric analysis. The second semester is devoted to methods of analytical separations, such as solvent extraction, ion exchange, and chromatography. Colorimetry, spectrophotometry, and other modern instrumental methods will be emphasized. Two hours classroom and four hours laboratory per week.

Open to Sophomores and above. Prerequisite: 12, with a grade of at least C.

29-30. RESEARCH METHODS

2 credit hours

Literature searching, research planning and execution, interpretation, precision and accuracy, techniques, legal considerations, report writing.

Open to Sophomores and above. Prerequisite: 21 and concurrent registration in 22.

32. ADVANCED INORGANIC CHEMISTRY

2 credit hours

A systematic treatment of the chemistry of inorganic compounds with special emphasis on recent advances in the chemistry of boron, nitrogen, phosphorus, silicon, and the rare earths. This is preceded by a quantitative treatment of atomic and nuclear structure, radioactivity and isotopic tracer techniques, nuclear transformations, chemical bonding, and coordination compounds.

Open to Juniors. Also open to others with permission of the Chairman of the Department.

34. ELEMENTARY PHYSICAL CHEMISTRY

2 credit hours

Lecture course primarily for premedical students. A study of the states of matter, colligative properties of solutions, thermodynamic principles, acid-base and oxidation-reduction equilibria, chemical kinetics, and surface effects.

Open to Juniors and Seniors. Prerequisite: 21, 22; Physics 11-12.

51-52. ORGANIC CHEMISTRY

8 or 9 credit hours

The fundamental principles of organic chemistry with emphasis on the properties of functional groups and the relation of structure to chemical reactivity. Three hours classroom and four hours laboratory per week for non ACS majors. Laboratory for ACS majors, four hours per week first semester and eight hours per week second semester.

Open to Juniors and Seniors. Prerequisite: 21, 22.

81-82. PHYSICAL CHEMISTRY

8 credit hours

The course is designed to give a thorough foundation in the principles of physical chemistry. The fundamentals of chemical thermodynamics, kinetics, and quantum mechanics are introduced as unifying basis for discussion of chemical and phase equilibria, electrochemistry, reaction mechanisms, spectroscopy and atomic and molecular structure. Laboratory work and problem assignments are important parts of the course. Three hours classroom and three hours laboratory per week.

Open to Juniors and Seniors only. Prerequisite: 21, 22; Mathematics 11, 12; Physics 11-12.

*85, 86. THEORETICAL ORGANIC CHEMISTRY 2 or 4 credit hours

Discussion of experimental evidence for reaction mechanisms, methods by which these mechanisms are formulated, and correlation of organic reactions on the basis of mechanisms. Designed to develop in the student the ability to use modern literature and recently published advanced texts.

Open to Juniors and Seniors only. Prerequisite: 51-52; Physics 11-12.

83-84. SPECIAL PROBLEMS AND

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Two lectures per week on advanced laboratory techniques and instrumentation for the first eight weeks and six hours of laboratory per week for two semesters with research emphasized. Topics are chosen for investigation. Credit for 101-102 to be given if a grade of A is received for both semesters and the student meets the overall college requirements for honors work.

Open to Seniors only. Prerequisite: Permission of the Chairman of the Department.

Major: 32 semester hours, including 11, 12, 21, 22, 29-30, 32, 51-52, 85, and 34 or 81-82. Any student desiring ACS certification, must satisfactorily complete 11, 12, 21, 22, 29-30, 32, 51-52, 85, 81-82, and 83-84 or 101-102.

Minor: 18 semester hours, including 11, 12.

CLASSICAL LANGUAGES AND LITERATURE

ASSISTANT PROFESSOR NODDER

The goal of the Department of Classical Languages and Literature is to enable the student to read chosen portions of Greek and Latin Literature and to acquaint him with the cultural aspects of the Greek and Roman civilizations and their influence on the civilizations of the Western World.

Greek

1-2. FIRST YEAR GREEK 6 credit hours

Emphasis on the fundamentals of Greek grammar and the study of vocabulary.
Given in alternate years. To be given 1962-63.

11-12. SECOND YEAR GREEK 6 credit hours

Completion of the study of grammar. Readings in Attic prose and, in the second semester, the New Testament.
Given in alternate years. To be given 1963-64. Prerequisite: 1-2 or the equivalent.

21, 22. SURVEY OF GREEK LITERATURE 3 or 6 credit hours

Readings of representative Greek authors in both prose and poetry. Supplementary readings from Greek literature in English translation.

Given in alternate years. To be given 1962-63. Prerequisite: 11-12 with a grade of at least C.

Minor: 18 semester hours, including Greek 11-12, 21, 22, and History 21, 22.

Latin

1-2. FIRST YEAR LATIN 6 credit hours

Drill in the fundamentals of Latin grammar and vocabulary. Stress is on the study of the Latin background of the English language.

11-12. SECOND YEAR LATIN 6 credit hours

Further study of grammar and vocabulary. Readings from Latin prose. Study of public and private life of the Romans. Stress is on the study of the Latin background of the English language.

Prerequisite: 1-2, or the equivalent.

21. ROMAN HISTORIANS 3 credit hours

Readings from representative Roman historians, with particular emphasis on Livy. Parallel readings in Roman history.

To be given 1962-63. Prerequisite: 11-12 with a grade of at least C.

22. VIRGIL 3 credit hours

Selections from the Aeneid. Virgil's life and literary influence.

To be given 1962-63. Prerequisite: 11-12 with a grade of at least C.

31. LATIN LYRIC POETRY 3 credit hours

Horace, Odes and Epodes. Catullus. Life and literature of the Augustan Age.

Not to be given 1962-63. Prerequisite: 21, 22 with a grade of at least C.

32. CICERO 3 credit hours

Orations and some essays.

Not to be given 1962-63. Prerequisite: 21, 22 with a grade of at least C.

*33, 34. PROSE COMPOSITION 3 or 6 credit hours

Practice in both oral and written composition.

Not to be given 1962-63. Prerequisite: 11-12 with a grade of at least C.

61, 62. LATIN LITERATURE OF THE REPUBLIC 3 or 6 credit hours

Readings of representative Latin authors in prose and poetry.
To be given 1963-64. Prerequisite: 11-12 with a grade of at least C.

71, 72. LATIN LITERATURE OF THE EMPIRE 3 or 6 credit hours

Readings of representative Latin authors in prose and poetry.
To be given 1964-65. Prerequisite: 11-12 with a grade of at least C.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: 30 semester hours, including 11-12 and 21, 22. History 23, 24 may be counted toward this requirement.

Minor: 18 semester hours, including 11-12 and 21, 22. History 23, 24 may be counted toward this requirement.

DRAMATIC ARTS

ASSISTANT PROFESSOR BRUBAKER

Courses in Dramatic Arts are open to all students. While no major or minor is offered, the student, by combining these courses with the offerings of the Department of English in dramatic literature, may receive a thorough background in the field.

In addition to the course offerings, an extracurricular program gives all students an opportunity for practical experience in the Dramatic Arts.

*11, 12. ACTING AND DIRECTING 3 or 6 credit hours

First semester: A laboratory course in the principles and theories of acting combined with practical exercises. Second Semester: A laboratory course in directing. One hour classroom and four hours laboratory per week.

21. STAGECRAFT 3 credit hours

A laboratory course in technical production, with emphasis on class and individual projects. Two hours classroom and two hours laboratory per week.

32. HISTORY OF THE THEATRE 3 credit hours

The physical theatre, from Greek to modern times. Major trends and styles in playwriting, production, and acting.

Open to Sophomores and above. Also open to Freshmen with permission of the instructor. Previous courses in History and/or dramatic literature are strongly recommended.

ECONOMICS

PROFESSORS NEWMAN AND PRINZ

LECTURER YAVERBAUM

ASSISTANT PROFESSORS HOUSTON AND KING

The Department of Economics offers courses designed to give the student a knowledge of the essential facts and theories basic to the free enterprise and other economic systems of the world today. A student majoring in the field may obtain a background for business and the prerequisites for graduate study in business, economics, and allied fields. Other students will find the various courses complementary to their specialized programs in political science, sociology, history, and the like.

12. ECONOMICS OF PERSONAL FINANCE 3 credit hours

A study of the consumer and his use of income. An analysis of the major factors in personal finance such as borrowing, investing, paying taxes, and spending for consumption.

Open to Sophomores and above. Not open to students who have credit for 21-22. Given occasionally. To be given 1962-63.

15. ECONOMIC GEOGRAPHY 3 credit hours

The main geographic regions of the world compared with respect to their climate, natural resources, and main lines of agricultural and industrial production, as a basis for understanding world trade and international economic policies.

Open to Sophomores and above. Given occasionally. To be given 1962-63.

21-22. PRINCIPLES OF ECONOMICS 6 credit hours

Designed to enable the student to appraise contemporary economic problems. Emphasis is placed upon the structure of modern markets: production and pricing; the development of business organizations and related institutions; the banking system; national income, its determination and its distribution into wages, rents, interest, and profits; public finance; international trade; and comparative economic systems.

Open to Sophomores and above.

*29, 30. INTRODUCTORY ACCOUNTING 3 or 6 credit hours

A course designed to give the student a general knowledge of accounting and of its use as a tool of management. Emphasis is placed upon the managerial approach of economic and financial analysis and interpretation after basic accounting techniques have been mastered. Fundamental problems of business finance, income tax, and automatic data-processing systems are considered in the second semester.

Open to Sophomores and above.

35. BUSINESS ORGANIZATION AND FINANCE 3 credit hours

The forms of business enterprise compared in their legal status and economic importance; dominance of the corporate form of private enterprise; problems of administration and finance; investors' rights and state control.

Open to Juniors and Seniors. Prerequisite: 21.

44. PUBLIC FINANCE 3 credit hours

A survey of the field of government finance—national, state, and local. Trends and purposes in government income and expenditures; analysis of deficit financing and taxation theory and practice; the relation of these aspects of finance to credit and price structures, business administration, and the business cycle, as a factor in determining public policy.

Open to Juniors and Seniors. Given in alternate years. To be given 1962-63. Prerequisite: 21-22.

47. MONEY AND BANKING 3 credit hours

A study of the role of money and credit in the United States economy. This includes an examination of the functions of money, the commercial banking system, the Federal Reserve System, and miscellaneous domestic and international financial institutions. Various theories of money will be studied. The monetary and financial policies and practices of the Federal Reserve System and the United States Government will be analyzed and appraised.

Open to Juniors and Seniors. Prerequisite: 21-22.

48. FOREIGN TRADE 3 credit hours

A study of the principles and practices of international trade: tariff problems and policies, international trade agreements, international monetary systems and the balance of payments, exchange depreciation and exchange control, state trading, the International Monetary Fund, the European Payments Union, and the Common Market.

Open to Juniors and Seniors. Prerequisite: 21-22.

49. INTERNATIONAL ECONOMICS 3 credit hours

The problems of international investment. The needs of underdeveloped countries. Foreign economic policies of the United States and other countries. The International Bank for Reconstruction and Development, the Export-Import Bank, and similar institutions.

Open to Juniors and Seniors. Given occasionally. Not to be given 1962-63. Prerequisite: 48 or permission of the instructor.

50. SOCIAL CONTROL OF BUSINESS 3 credit hours

Analysis of the control of monopoly in American industry. Particular problems of defense, agriculture, and public utilities, as well as basing-point systems, patenting and licensing agreements, delivered pricing, et cetera, are considered. Over-all emphasis placed upon the interpretation and enforcement of the antitrust laws.

Open to Juniors and Seniors. Given in alternate years. Not to be given 1962-63. Prerequisite: 21-22.

53. THE ECONOMICS OF LABOR

3 credit hours

A survey of the development and regulation of trade unions in the United States, with special reference to the institutional and theoretical background of collective bargaining wherein wages, hours, and other conditions of employment are determined.

Open to Juniors and Seniors. Given in alternate years. To be given 1962-63. Prerequisite: 21-22.

*61, 62. INTERMEDIATE ACCOUNTING

3 or 6 credit hours

A more advanced treatment of the material in Economics 29, 30 with increased emphasis on advanced accounting theory and techniques in conjunction with the managerial approach. Consideration of more advanced problems in business finance, income tax, and automatic data-processing systems is stressed, together with some discussion of CPA examination questions.

Open to Juniors and Seniors. Prerequisite: 29, 30.

71. ECONOMIC HISTORY OF THE UNITED STATES

3 credit hours

The evolution of agriculture, industry, commerce, finance, and transportation from Colonial times to the present, viewed against the background of natural environments and changing social and governmental institutions.

Open to Juniors and Seniors. Prerequisite: 21-22, or permission of the instructor. See History 79.

*73, 74. HISTORY OF ECONOMIC THOUGHT

3 or 6 credit hours

A critical presentation of significant economic theories from the beginning to the present time, viewed as an expression of the individuality of the great thinkers and of their historical background.

Open to Juniors and Seniors. Prerequisite: 21-22.

75. BUSINESS CYCLES

3 credit hours

A critical analysis of the history and causes of economic fluctuations; the main theories and the various measures designed to bring about greater economic stability, with emphasis on recent experience.

Open to Juniors and Seniors. Prerequisite: 21-22 and 47.

76. CONTEMPORARY ECONOMIC SYSTEMS

3 credit hours

Capitalism, communism, fascism, and socialism compared as economic systems. Their ideology; their historical development in the principal countries; and their main present problems.

Open to Juniors and Seniors. Prerequisite: 21-22.

78. ECONOMIC THEORY

3 credit hours

A study of the major fields of modern economic theory, with emphasis on the tools of economic analysis at the macroeconomic and microeconomic levels. Deductive and inductive methods are compared and contrasted. The theories of consumer

demand, the business firm and market structures, income determination and distribution, and growth are presented. Tools of empirical analysis such as statistical techniques, econometrics, input-output and other national accounting techniques are discussed.

Open to Juniors and Seniors. Given occasionally. Not to be given 1962-63. Prerequisite: 21-22.

95. SEMINAR

3 credit hours

Individual reading program and preparation of reports for class presentation and discussion. Each semester's work will center around a particular subject or area of economics.

Open to Seniors only. Prerequisite: Permission of the Chairman of the Department.

101-102. INDEPENDENT STUDIES AND HONORS COURSE

6 credit hours

Open to Seniors only. See index.

Major: 30 semester hours, including 21-22, 29, 47, and 73-74, and twelve hours from the following: 15, 30, 35, 44, 48, 49, 50, 53, 71, 75, 76, 78, 95, 101-102. In addition, beginning with students who entered in September 1959, Mathematics 1-2, or 5-6, or the equivalent, and Mathematics 13 or 23-24 will be required.

Minor: 18 semester hours, including 21-22. Economics 12 may not be counted toward a minor.

NOTE: Students who plan to make Economics their major field of study should arrange to take Economics 21-22 as early as possible, preferably in their Sophomore year, in order to avoid election difficulties later. They should elect Economics 29 not later than the Junior year. Students planning to do graduate work in Economics should elect Economics 78 and Mathematics 11-12, 23-24, and if possible 15-16.

EDUCATION AND PSYCHOLOGY

PROFESSORS JAMES AND GRAFFAM

VISITING PROFESSOR WILLIAMS

ASSOCIATE PROFESSORS BROUGHNER AND WANNER

ASSISTANT PROFESSORS HARTMAN AND COSLETT

Education

The Department of Education offers undergraduate courses leading to the Provisional Secondary Teacher's Certificate. The Department provides the proper courses for certification in such states as Pennsylvania, New York, New Jersey, Maryland, and Delaware. It conceives as its dual function the preparation of teachers and the offering of certain courses in Education for the completion of the liberal arts requirement.

A student who plans to teach in the secondary schools should have a conference with the Chairman of the Department before the Sophomore year. The Department does not offer specific preparation for certification on the elementary level, but, through a combination of courses taken at Dickinson and at other institutions offering courses in elementary teaching, such certification can be achieved.

21. INTRODUCTION TO EDUCATION 3 credit hours

This course performs the two-fold function of a general introduction to the field of education and a systematic analysis of the basic principles involved in a constructive theory of education which is serviceable to the citizen and teacher. Aims, values, agencies, curriculum, organization, and practice are covered through text, supplementary lectures, and assigned readings.

Open to Sophomores and above. Also open to Freshmen with permission of the instructor.

31. EDUCATIONAL PSYCHOLOGY 3 credit hours

Open to Sophomores and above. See Psychology 31.

33. PRINCIPLES AND METHODS OF TEACHING IN THE SECONDARY SCHOOL 3 credit hours

This course is designed to acquaint the student with the best philosophic and scientific data in the solution of problems confronting the classroom teacher, with particular reference to the high school. Stress is laid upon the various types of learning and teaching, methods of organization and control, and the development of an effective classroom technique.

Open to Juniors and Seniors. Open to those who plan to teach. Prerequisite: 31.

35. HISTORY AND PHILOSOPHY OF EDUCATION 3 credit hours

Education as a social agency, with a background of the general history of civilization.

Open to Juniors and Seniors who plan to teach.

39. CURRICULUM 3 credit hours

The curriculums of junior and senior high schools form the basis of this course, with particular attention to the subject matter of the student's field of concentration. The contributions of educational philosophy, psychology, sociology, and history to a progressive adjustment in academic, cultural, and technical courses of study are evaluated, with stress on course construction and revision.

Open to Juniors and Seniors who plan to teach.

43. EDUCATIONAL MEASUREMENT 3 credit hours

An introductory course seeking to interpret the general principles of educational measurement, with emphasis on the significance of the modern test movement; uses

and abuses of tests; types of tests and scales and their validity; principles of selection and design; techniques of administering, scoring, tabulating, and interpreting results.

Open to Sophomores and above. Prerequisite: 31.

47. SPECIAL METHODS 1 credit hour

Special methods of teaching as applied to the specific fields for which the student is preparing. Whenever possible the course is given by a member of the department in which the student has his major.

Open to Juniors and Seniors. To be elected along with Education 33.

51. VISUAL AND SENSORY TECHNIQUES 1 credit hour

A study of the visual and sensory techniques currently used in classroom procedure.

Open to Seniors who plan to teach and to Senior ministerial students.

53. PRINCIPLES OF GUIDANCE 3 credit hours

A general introduction to basic principles of personnel administration for counselors of students.

Open to Sophomores and above.

61-62. SUPERVISED STUDENT TEACHING 6 credit hours

Permission to elect this course must be secured from the Chairman of the Department and will depend upon scholastic attainment, professional interest in teaching, evidence of a superior teaching personality, and the opportunities available for work in the nearby high schools. The College will endeavor to make convenient arrangements for the student who meets the requirements for student teaching, but travel involved and hours of work are primarily the responsibility of the student.

Open to Seniors only. Prerequisite: 33 and permission of the Chairman of the Department. A laboratory fee of \$35 is charged for this course.

Minor: 18 semester hours in departmental course work.

NOTE: This Department does not offer a major in Education. The student preparing to teach completes his major in another department of the College.

Psychology

The program in Psychology is designed to give the student a sound foundation in psychological thought and an understanding of experimental and statistical evidence. Students planning to continue with graduate work in this field should schedule Psychology 11 in their Freshman year and consult with the Chairman of the Department concerning a sequence of recommended courses.

11. INTRODUCTION TO PSYCHOLOGY 3 credit hours

This course is a prerequisite to all other courses offered in Psychology.

12. INTERMEDIATE GENERAL PSYCHOLOGY 3 credit hours

A course designed to treat selected topics in general psychology with more detail and greater rigor than is possible in the introductory course. Emphasis is on consolidation of basic principles in preparation for more specialized courses.

Prerequisite: 11.

15. LEARNING 3 credit hours

This course reviews the current theories of human and animal learning within a framework of relevant experimental research.

Open to Sophomores and above. Prerequisite: 21.

17. MOTIVATION 3 credit hours

This course offers students an opportunity, through study, observation, and experimentation, to examine various theories of animal and human motivation.

Open to Sophomores and above. Prerequisite: 11.

21-22. EXPERIMENTAL PSYCHOLOGY 8 credit hours

A systematic analysis of (1) scientific methodology as used in psychology, (2) the fundamental conditions and principles of learning, both animal and human, and (3) application of these principles to the problems of complex behavior. Two hours classroom and four hours laboratory per week.

Open to Sophomores and above. Prerequisite: 11.

23. PSYCHOLOGICAL EVALUATION 3 credit hours

An introduction to mental measurements and the principles of psychological testing. Stresses individual differences and includes practice in test administration.

Open to Sophomores and above. Prerequisite: 11.

27. MENTAL HEALTH AND PERSONAL ADJUSTMENT 3 credit hours

A course designed to acquaint the student with the principles of sound mental health as well as with the social and family nature of the mental health problem.

Open to Sophomores and above. Not open to Psychology majors. Prerequisite: 11.

31. EDUCATIONAL PSYCHOLOGY 3 credit hours

An introduction to the psychology of learning for students interested in education. The attempt is made to develop a theory of learning and behavior in relation to the physical, social, and psychological development of the child and adolescent. The work of the classroom is supplemented by field study of pupil behavior in the public schools.

Open to Sophomores and above. Prerequisite: 11.

33. PERSONALITY 3 credit hours

A study of the origins, development, and measurement of personality. The purpose of this course is to enable the student to construct for himself a wholesome view of mental life.

Open to Juniors and Seniors. Prerequisite: 11.

*37, 38. DEVELOPMENT PSYCHOLOGY 3 or 6 credit hours

The principles of human development over man's life span. Emphasis is upon child and adolescent psychology.

Open to Sophomores and above. Prerequisite: 11.

39. PRINCIPLES OF COUNSELING 3 credit hours

The theories and techniques of counseling with emphasis upon the interdependence of educational, vocational, and personal problems.

Open to Sophomores and above. Prerequisite: 11.

41. SOCIAL PSYCHOLOGY 3 credit hours

The principles of psychology as they are related to the problems of society and the social behavior of individuals and groups.

Open to Juniors and Seniors. Prerequisite: 11.

49. INDUSTRIAL PSYCHOLOGY 3 credit hours

Principles of psychology as applied in American industry to such problems as selection, efficiency, evaluation, and morale. Some attention is given to industrial uses of psychological tests. Text, lectures, discussions, assigned readings, and field trips.

Open to Sophomores and above. Prerequisite: 11.

*51, 52. HISTORY AND CURRENT THEORIES OF PSYCHOLOGY

3 or 6 credit hours

An examination and critical evaluation of the history and content of selected current theories in psychology, especially the influence of various types of theory upon contemporary psychological research.

Open to Juniors and Seniors. Prerequisite: 11.

65. ABNORMAL PSYCHOLOGY 3 credit hours

An introduction to the field of abnormal psychology designed for the advanced undergraduate. The facts presented are valuable as background for medical students and for those who contemplate social and educational work.

Open to Juniors and Seniors who are Psychology majors and minors, and premedical students. Prerequisite: 11.

*81, 82. SENIOR SEMINAR 3 or 6 credit hours

Readings, reports, and discussions will be employed in an examination of central problems of present-day psychology.

Open to Seniors only. Prerequisite: 11 and permission of the Chairman of the Department.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: 30 semester hours in departmental course work. Psychology 11, 21-22, 23, and 81, 82 must be elected in order to receive departmental recommendation for

graduate study. Certain courses in other departments may be applied toward the major field with prior written approval of the Chairman of the Department.

Minor: 18 credit hours in departmental course work.

ENGLISH

PROFESSORS SCHIFFMAN, SLOANE, HORLACHER*, AND BOWDEN

ASSOCIATE PROFESSORS WARLOW* AND WISHMEYER

ASSISTANT PROFESSORS BEATY, HARTSHORN, AND ANDREWS

MR. GILLESPIE, DR. J. DOEBLER

DR. B. A. DOEBLER, AND MR. CLIPPER

The language and literature of the Anglo-American tradition are studied historically, by types, and in comparison with other arts and literatures. English majors should therefore take courses in art, history, music, philosophy, religion, and in foreign languages and literatures, both classical and modern. They should acquaint themselves with the best that has been thought and said and done in the world.

In various ways superior students are enabled and encouraged to do advanced, independent work.

1-2. ENGLISH COMPOSITION

6 credit hours

Principles of grammar and rhetoric necessary for clear, vigorous, written English. In the first semester, the student receives training in expository techniques, including research and report writing. In the second semester, the student is introduced to the critical appraisal of literature.

Required of all Freshmen. Either English 1-2 or 2a, or their equivalent in transfer credits, is a prerequisite to all other courses in the Department. (Exceptionally well-prepared students may be excused from English 1 with consent of the Chairman of the Department and the Dean of Admission. In its place they are required to take English 2a.)

2a. ENGLISH COMPOSITION

3 credit hours

Freshman course. Open only to Freshmen with advanced standing in English; these students normally elect English 11-12, 15, 18, 19, or 35 in the second semester. Prerequisite: Permission of the Chairman of the Department and the Dean of Admission.

11-12. A SURVEY OF ENGLISH LITERATURE

6 credit hours

The growth of literary types and values against the background of history, from earliest times to the present. Intensive study of the major English poets, prose-writers, and dramatists, especially Chaucer, Spenser, Shakespeare, Bacon, Donne,

* Refresher-Year Leave 1961-62.

Milton, Swift, Pope, Johnson and Boswell, Wordsworth, Keats, Browning, Arnold, Shaw, Yeats, and Eliot. *This course should be elected in the Sophomore year by all students contemplating further work in English.*

Open to Sophomores and above. Also open to Freshmen who have completed 2a.

15. THE ENGLISH NOVEL 3 credit hours

The development of the English novel from the late sixteenth to the mid-nineteenth century, with emphasis on the major novelists from Defoe to Thackeray and Trollope. Collateral readings and reports.

Open to Sophomores and above. Also open to Freshmen who have completed 2a.

16. THE ENGLISH NOVEL 3 credit hours

The development of the English novel from the mid-nineteenth to the early twentieth century, with emphasis on the major novelists from the Bröntes to Conrad, Bennett, and Wells. Collateral readings and reports.

Open to Sophomores and above.

17. ENGLISH DRAMA 3 credit hours

The development of English drama from the liturgical play to the late eighteenth-century comedy of manners.

Open to Sophomores and above.

18. MODERN DRAMA 3 credit hours

The contemporary theatre, with some attention to the influence of European writers since Ibsen upon modern playwriting and stagecraft.

Open to Sophomores and above. Also open to Freshmen who have completed 2a.

19. CLASSICAL AND BIBLICAL INFLUENCES IN ENGLISH LITERATURE

3 credit hours

Selected classical and Biblical literature with critical consideration of their use from the Middle Ages to the twentieth century.

Open to Sophomores and above. Also open to Freshmen who have completed 2a.

Given in alternate years. To be given 1963-64.

25. ADVANCED COMPOSITION 3 credit hours

The techniques of purposeful writing, with special attention to the development of ideas and their critical appraisal through exposition. *Required in the Junior year of all students taking the combined College-Law School program. (This is not a remedial course.)*

Open to Juniors and Seniors. Also open to Sophomores with permission of the instructor.

35. HISTORY OF THE ENGLISH LANGUAGE 3 credit hours

The origins and growth of the English language from the earliest times to the present; the sources of our vocabulary and the continuing processes of word creation and semantic change.

Open to Sophomores and above. Also open to Freshmen who have completed 2a.

36. STRUCTURE OF THE ENGLISH LANGUAGE 3 credit hours

An intensive study of conventional grammar, with some attention to its historical development and a short introduction to the principles of structural linguistics. Recommended for language students and for those preparing to teach English.

Open to Juniors and Seniors. Also open to Sophomores with permission of the instructor.

37, 38. WORLD LITERATURE 3 or 6 credit hours

Readings in English translation from a selected group of literary masters of particular significance to Western culture, notably Homer, the Greek dramatists, Virgil, Dante, Chaucer, Shakespeare, Moliere, Racine, Voltaire, Goethe, Dostoevsky, and Ibsen. Lectures by the instructor and other members of the Faculty.

Open to Juniors and Seniors.

41-42. SHAKESPEARE 6 credit hours

First semester: Early plays, comedies, and histories. Second semester: Problem comedies, tragedies, and romances. Offers a sampling of the principal critical approaches to Shakespeare, but primary emphasis is on the plays themselves.

Open to Juniors and Seniors.

44. CHAUCER 3 credit hours

A study of Chaucer and his century, with emphasis on *The Canterbury Tales* and *Troilus and Criseyde*.

Open to Juniors and Seniors. Prerequisite: 11-12; but may be elected concurrently with 12 by Sophomores who have a grade of at least B in 11.

45, 46. A SURVEY OF AMERICAN LITERATURE 3 or 6 credit hours

Literary trends from Puritan times to the present, with emphasis on the major nineteenth and twentieth-century writers. First semester: Mather to Melville. Second semester: Whitman to Hemingway.

Open to Juniors and Seniors. Prerequisite: 11-12; but may be elected concurrently with 12 by Sophomores who have a grade of at least B in 11.

49. REPRESENTATIVE AMERICAN WRITERS 3 credit hours

The writers selected for intensive study vary from year to year. Generally they are chosen on the basis of some common principle or trend represented in their writing or time.

Open to Juniors and Seniors. Prerequisite: 11-12.

53-54. ENGLISH LITERATURE OF THE SEVENTEENTH CENTURY

6 credit hours

First semester: A study of the important poets and prose-writers from the age of Donne and Jonson to the Restoration, with outside readings in the literature of the period. Second semester: A detailed study of the poetry and prose of John Milton.

Open to Juniors and Seniors. Prerequisite: 11-12; but may be elected concurrently with 12 by Sophomores who have a grade of at least B in 11.

57, 58. ENGLISH LITERATURE OF THE EIGHTEENTH CENTURY

3 or 6 credit hours

Representative English writers and tendencies of the neoclassical period. First semester: The Augustan period, with emphasis on Dryden, Swift, and Pope. Second semester: The age of Johnson and the beginnings of Romanticism.

Open to Juniors and Seniors. Prerequisite: 11-12; but may be elected concurrently with 12 by Sophomores who have a grade of at least B in 11.

*61, 62. ENGLISH LITERATURE OF THE NINETEENTH CENTURY

3 or 6 credit hours

First semester: Major writers of the Romantic period, from Wordsworth to Keats. Second semester: Major writers of the Victorian period, from Tennyson to Housman and Hardy.

Open to Juniors and Seniors. Prerequisite: 11-12; but may be elected concurrently with 12 by Sophomores who have a grade of at least B in 11.

67. TWENTIETH CENTURY FICTION

3 credit hours

A study of contemporary fiction based on a group of novels representative of English, American, and Continental achievements and trends.

Open to Juniors and Seniors. Also open to Sophomores with permission of the instructor. It is recommended that this course be preceded by at least one semester's study of the English novel.

70. TWENTIETH CENTURY AMERICAN AND BRITISH POETRY

3 credit hours

Important American and British poets (Yeats, Robinson, Frost, Pound, Eliot, Auden, and others) and poetic tendencies (symbolism, imagism, Georgianism, social consciousness, and the like). Readings for breadth in an anthology; readings for depth in separate volumes of one or two poets.

Open to Juniors and Seniors.

81, 82. CREATIVE WRITING

3 or 6 credit hours

Directed practice in the techniques of short fiction, dramatic dialogue, and lyric poetry.

Open to Juniors and Seniors. Also open to Sophomores with a grade of at least B in 1-2 or 2a.

91, 92. LITERARY CRITICISM

3 or 6 credit hours

A seminar for discussion of literary critics from ancient times to the present, with emphasis on the relation of modern criticism to selected works of fiction and poetry.

Open to Juniors and Seniors. Prerequisite: 11-12 and an inclusive average of 2.25 or better.

95. JUNIOR SEMINAR: METHODS OF RESEARCH IN ENGLISH

1 credit hour

Methods of literary research and the effective means of their presentation.

Open only to, and required of, Juniors and Seniors majoring in English.

96. SENIOR SEMINAR

3 credit hours

Special problems in the study of literature. Individual research or creative writing projects.

Open only to Seniors majoring in English. Credit is not given for both this course and for 101-102. Prerequisite: An inclusive average of 2.25.

101-102. INDEPENDENT STUDIES AND HONORS COURSE

6 credit hours

Open to Seniors only. See index.

Major: 30 semester hours in departmental course work, including 24 hours in literature courses. Majors must elect 11-12, 41-42, 95, and at least six hours from the following group: 17, 44, 45, 46, 53-54, 57, 58, 61, 62, and 70. In addition, at least three of these six hours must be from the following group: 17, 44, 53-54, 57, and 58. Students who hope to receive departmental honors must elect 101-102.

Minor: 18 semester hours in departmental course work, including 15 hours in literature courses. Minors must elect 11-12 and at least six hours from the following group: 41-42, 44, 45, 46, 53-54, 57, 58, 61, 62, and 70.

FINE ARTS

ASSISTANT PROFESSORS GORDON AND PUSEY

Courses in Fine Arts provide the student with objective methods of understanding the historical and aesthetic significance of the visual arts. The introductory courses are designed to increase the student's visual perception, either through study of the art of major civilizations or through studio practice. In courses devoted to specific periods, the works of art are studied in relation to the historical and cultural background; problems of critical interpretation and evaluation are considered.

15, 16. HISTORY OF ART

3 or 6 credit hours

A survey of the painting, sculpture, architecture and other arts created in the world's major civilizations; relevant technical terms and objective methods of analysis are defined. In 15, examples are chosen from primitive, ancient, and oriental art, and from European art before the sixteenth century. In 16, art of the western tradition (beginning with the Renaissance) is considered.

Not open to students with credit for 31-32.

*17, 18. FUNDAMENTALS IN PAINTING AND DESIGN

3 or 6 credit hours

A studio course, consisting of six hours of supervised practical work per week. Instruction is offered in materials, several media of drawing and painting, composition and design, color theory, and mural and other decorative painting.

Not open to students with credit for 11, 12. Prerequisite, beginning with the Class of 1965: 15 or 16.

19. SPECIAL PROBLEMS IN PAINTING AND DESIGN 1 credit hour

A studio course extending the work of Fine Arts 17, 18, by further individual work with the instructor.

Open to Sophomores and above. Prerequisite: 17, 18 and, beginning with the Class of 1965, 15 or 16.

33. ANCIENT ART 3 credit hours

The art and architecture of ancient Egypt, Mesopotamia, Greece, and Rome is considered, with major emphasis devoted to Greek art of the Archaic, Classic, and Hellenistic periods.

Not open to students with credit for 39. Prerequisite, beginning with the Class of 1965: 15 or 16.

34. ORIENTAL ART 3 credit hours

A survey of the oriental viewpoint in art. Examples are drawn from the cultures of southeast Asia, China and Japan, with particular emphasis upon the Chinese painting tradition.

Prerequisite, beginning with the Class of 1965: 15 or 16.

35. MEDIEVAL ART 3 credit hours

European art and architecture of the middle ages, from the decline of the Roman Empire to the fourteenth century. Particular emphasis is placed upon the art of the Gothic cathedral.

Not open to students with credit for 40. Prerequisite, beginning with the Class of 1965: 15 or 16.

37. ITALIAN RENAISSANCE ART 3 credit hours

Italian painting and sculpture of the fifteenth and sixteenth centuries, with some consideration of architecture. The works of Leonardo, Raphael, Titian, and Michelangelo are considered in some detail.

Open to Sophomores and above. Not open to students with credit for 43. Prerequisite, beginning with Class of 1965: 15 or 16.

38. BAROQUE ART 3 credit hours

European painting and sculpture of the seventeenth century, with some consideration of earlier North European painting. Particular emphasis is devoted to the art of Velasquez, Poussin, Rubens, and Rembrandt.

Open to Sophomores and above. Prerequisite, beginning with the Class of 1965: 15 or 16.

42. HISTORY OF ARCHITECTURE SINCE 1400 3 credit hours

A survey of Renaissance, Baroque, Rococo, and more recent architecture. Twentieth century innovations in space, structure, and design are considered in relation to earlier European tradition.

Open to Sophomores and above. Prerequisite, beginning with the Class of 1965: 15 or 16.

44. MODERN PAINTING

3 credit hours

Painting of the nineteenth and twentieth centuries. In relation to the European background of the nineteenth century, the continuities and innovations of modern pictorial art are considered. Creative movements and styles are emphasized, from Impressionism to the present day.

Open to Sophomores and above. Prerequisite, beginning with the Class of 1965: 15 or 16.

45. AMERICAN ART

3 credit hours

The development of painting, sculpture, architecture, and some of the minor arts in the United States from the Colonial period to the twentieth century.

Open to Sophomores and above. Prerequisite, beginning with the Class of 1965: 15 or 16.

*81, 82. ART HISTORY SEMINAR

3 or 6 credit hours

Selected problems of meaning and design in the Fine Arts are studied in individual student projects and group discussion.

Open to Juniors and Seniors. Prerequisite: 15, 16 and 9 credit hours in Fine Arts courses from the following group: 33, 35, 37, 38, 44.

Minor: 18 semester hours, including 15, 16.

NOTE: Students are advised that a knowledge of German or French is required for graduate work in Fine Arts.

GEOLOGY

PROFESSOR DIFFORD

ASSISTANT PROFESSOR VIRGIN

The course offerings in the Department of Geology are designed to give a comprehensive view of the principal areas of the science of geology, and experience in the fundamentals of geological investigation. This program is provided for students planning to proceed with graduate study or research in the field, or to enter directly into positions for which geological training is a requisite, as well as to stimulate understanding and enjoyment of the region in which the student lives.

*11, 12. PHYSICAL AND HISTORICAL GEOLOGY

8 credit hours

First semester: Geological principles and external processes, including rock weathering and soils, river action and valley development, effects of glaciers, oceans, and volcanoes. Internal processes and their effects are examined, along with earth movement in mountain building, faulting, and folding. Second semester: The history of the earth, its changing features, and the development of its animal and plant inhabitants. Three hours classroom and three hours laboratory per week.

23. MINERALOGY

3 credit hours

A course in descriptive mineralogy in which the various mineral groups are studied. Includes crystallography, general physical properties, and chemical and systematic mineralogy. Two hours classroom and three hours laboratory per week. *Open to Sophomores and above. Alternates with 25. To be given 1963-64. Prerequisite: 11-12 and Chemistry 11-12.*

24. PETROLOGY

3 credit hours

A systematic study of the modes of occurrence, origin, and classification of rock types. Laboratory studies will be focused on the megascopic identification of the common rocks. Two hours classroom and three hours laboratory per week. *Open to Sophomores and above. Alternates with 26. To be given 1963-64. Prerequisite: 11-12 and 23.*

25. INTRODUCTORY PALEONTOLOGY

3 credit hours

A systematic study of the invertebrate fossil groups, their evolution, and their relationships to living animals. Two hours classroom and three hours laboratory per week.

Open to Sophomores and above. Alternates with 23. To be given 1962-63. Prerequisite: 11-12, or Biology 11-12, or Biology 23-24.

26. STRATIGRAPHY AND SEDIMENTATION

3 credit hours

A study of the origin, description, properties, classification, and methods of correlation of the stratified rocks and sediments. Two hours classroom and three hours laboratory per week.

Open to Sophomores and above. Alternates with 24. To be given 1962-63. Prerequisite: 11-12.

32. ECONOMIC GEOLOGY

3 credit hours

Covers the mineral fuels, coal, oil, and gas, the major ore deposits, and the building materials including their geographic distribution, geologic occurrence, origin, and uses.

Open to Sophomores and above. Alternates with 33. To be given 1963-64. Prerequisite: 11-12.

33. STRUCTURAL GEOLOGY

3 credit hours

Properties, relationships, and positions of the component rock masses of the earth. Two hours classroom and three hours laboratory per week.

Open to Sophomores and above. Alternates with 32. To be given 1962-63. Prerequisite: 11-12 and knowledge of trigonometry.

37. GEOMORPHOLOGY

3 credit hours

The description and interpretation of the relief features of the earth's continents and ocean basins with a comprehensive study of the basic geologic processes which shape them.

Open to Sophomores and above. Alternates with 43. To be given 1962-63. Prerequisite: 11-12.

38. FIELD GEOLOGY 3 credit hours

A course in some of the basic geological field techniques, with the preparation of topographic and geologic maps and reports from data obtained by the student in the field. Two hours classroom and three hours laboratory per week.

Open to Juniors and Seniors. Alternates with 44. To be given 1962-63. Prerequisite: 11-12 and 33.

43. ENGINEERING GEOLOGY 3 credit hours

The main purpose of the course is to provide geology students with a knowledge of those phases of geology, soil and rock mechanics, and other earth sciences which are necessary for work with civil engineers.

Open to Juniors and Seniors. Alternates with 37. To be given 1963-64. Prerequisite: 11-12 and 33.

44. GEOCHEMISTRY 2 credit hours

A systematic study of the chemistry of the earth, including principles governing the distribution and migration of the chemical elements as well as the abundance of the elements and atomic species in the earth, its aqueous envelope, and the atmosphere.

Open to Juniors and Seniors. Alternates with 38. To be given 1963-64. Prerequisite: Chemistry 11-12 and permission of instructor.

91, 92. SEMINAR IN GEOLOGY 3 or 6 credit hours

Individual problems. Reviews of current literature, and reports on selected readings.

Open only to Juniors and Seniors majoring or minoring in Geology. Prerequisite: permission of the instructor.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: 30 semester hours, including 11-12, 38, and 91, 92. In addition, Chemistry 11-12 and Mathematics 11, 12 are required along with at least one of the following year-courses: Biology 11-12 or 23-24, Physics 11-12. No grade in the department lower than C may be counted toward the major.

Minor: 18 semester hours, including 11-12. Physics 23 may be counted toward this requirement.

HISTORY

ASSOCIATE PROFESSORS KELLOGG, PFLAUM, AND GATES

ASSISTANT PROFESSORS YOUNG AND CARSON

MR. MILLER

The offerings in History are planned to serve the following purposes: to inform the student interested in man's past, to acquaint him with the leading interpretations of his heritage, to encourage him to comprehend

and utilize historical perspectives, and to introduce him to the methodology and techniques of historical analysis. Students elect courses in the Department as a component of their liberal education, as a preparation for graduate study and for the teaching of history, to complement their work in other disciplines, and to provide a background for such careers as Law, Journalism, and Library Science.

*11, 12. HISTORY OF WESTERN CIVILIZATION 3 or 6 credit hours

The elements of continuity and the phases of change in the civilization that matured in Europe from its beginnings in the Near East and Greece to its current expansion into other areas of the world.

*17, 18. AMERICAN HISTORY 3 or 6 credit hours

A survey of the colonial origins and national development of the United States from 1607 to the present. Some attention is given to interpretations by leading historians.

Open to Sophomores and above.

19, 20. HISTORY OF THE FAR EAST 3 or 6 credit hours

First semester: Political and social development of the people of Eastern Asia before they experienced extensive western influences. Second semester: The past century and a half with attention to relations with the western world.

Open to Sophomores and above. Given in alternate years. To be given 1963-64. Not open to students with credit for 85, 86.

21, 22. HELLENIC HISTORY 3 or 6 credit hours

The Greek people from prehistoric times to the Age of Constantine, with emphasis on the fourth and fifth centuries before Christ.

Alternates with 23, 24. To be given 1962-63. Prerequisite: 11.

23, 24. ROMAN HISTORY 3 or 6 credit hours

The Roman state from prehistoric times to the Middle Ages, with special attention to the Republic and the Principate.

Alternates with 21, 22. To be given 1963-64. Prerequisite: 11.

25. MEDIEVAL HISTORY 3 credit hours

The development of European civilization from the disintegration of Roman imperial authority to the late thirteenth century, with some attention to eastern Europe.

Given in alternate years. To be given 1962-63. Prerequisite: 11.

26. RENAISSANCE AND REFORMATION: 1300-1648 3 credit hours

The transition from medieval to modern Europe interpreted with special attention to the interrelation of the economic, political, cultural, and religious forces of change.

Open to Sophomores and above. Not open to students with credit for 70. Prerequisite: 11, 12.

- 37, 38. HISTORY OF GERMANY: SINCE 800 3 or 6 credit hours
 First semester: From the establishment of medieval Germany through the Reformation and dynastic absolutism, to the challenge to the German peoples of the Revolution and Napoleon. Second semester: The contest of liberalism and reaction, unification in the German Empire, and the twentieth century crises.
Open to Sophomores and above. Given in alternate years. To be given 1963-64.
Prerequisite: 11, 12.
- *43, 44. ENGLISH HISTORY: 55 B.C. TO DATE 3 or 6 credit hours
 First semester: The political and social evolution of England to the end of the seventeenth century. Second semester: Britain and the Empire to the present.
Open to Sophomores and above. Prerequisite: 11, 12.
45. ENGLISH CONSTITUTIONAL HISTORY 3 credit hours
 The evolution of governmental and legal institutions in the context of English society.
Open to Sophomores and above. Prerequisite: 11, 12.
47. AMERICAN COLONIAL HISTORY 3 credit hours
 English America from the epoch of settlement through the achievement of independence. Particular attention is given to the causes and consequences of the American Revolution.
Open to Sophomores and above. Given in alternate years. To be given 1962-63.
Prerequisite: 17.
- *49, 50. AMERICAN INTELLECTUAL AND SOCIAL HISTORY 3 or 6 credit hours
 From the colonial period to mid-twentieth century including such topics as the transit of culture from Europe, sources of egalitarianism, Tocqueville's America, southern cultural nationalism, the social gospel and social protest, and intellectual dissent in the 1920's.
Open to Juniors and Seniors. Given in alternate years. To be given 1963-64.
Prerequisite: 17, 18.
55. RECENT AMERICAN HISTORY 3 credit hours
 The development of the United States since 1898 with emphasis upon reform movements, and the assumption and implications of great power status.
Open to Juniors and Seniors. Given in alternate years. To be given 1963-64.
Prerequisite: 17, 18.
56. HISTORY OF LATIN AMERICA 3 credit hours
 The age of exploration and conquest, Spanish and Portuguese colonial empires, the wars of independence, survey of representative national histories, and the relations of Latin America with the United States and Europe.
Open to Sophomores and above. Given in alternate years. To be given 1962-63.

57. EUROPEAN INTELLECTUAL HISTORY

3 credit hours

Main currents of Western thought from the Middle Ages to the present. The interaction of ideas and social development is stressed with attention to the influence of science and economic changes. Includes such topics as humanism, the scientific revolution, evolutionary thought, relativism, and contemporary criticism of the liberal tradition.

Open to Sophomores and above. Given in alternate years. To be given 1962-63.

Prerequisite: 11, 12.

58. HISTORY OF SCIENCE

3 credit hours

In tracing the development of science from the Greeks to the present, three main points are considered: increasing scientific information; the development of scientific principles and interpretations; social consequences of scientific discovery.

Open to Sophomores and above. Given in alternate years. To be given 1963-64.

Prerequisite: 11, 12, or permission of the instructor.

69. ABSOLUTISM AND ENLIGHTENMENT: EUROPE 1648-1789

3 credit hours

The response of Europe to the triumph of absolutist monarchs and to their claim to divine right. Facets of the Enlightenment. A survey of Europe on the eve of the French Revolution.

Open to Sophomores and above. Prerequisite: 11, 12.

71. THE REVOLUTIONARY EPOCH: EUROPE 1789-1848

3 credit hours

The forces of revolution, Napoleon, the search for order and stability through reaction, and the recurrent struggle to achieve a permanent liberal revolution.

Open to Sophomores and above. Prerequisite: 11, 12.

72. NATIONALISM AND IMPERIALISM: EUROPE 1848-1919

3 credit hours

Nineteenth century materialism and the idea of progress; the unification of Germany and Italy with the attendant diplomatic adjustments; the First World War, the 1917 revolutions, and the Versailles settlement.

Open to Sophomores and above. Prerequisite: 11, 12.

73, 74. HISTORY OF RUSSIA

3 or 6 credit hours

First semester: From earliest times to the reign of Nicholas II. Second semester: Fall of the czarism, the Russian revolution, and the Communist state from Lenin to Khrushchev.

Open to Sophomores and above. Given in alternate years. To be given 1962-63.

Prerequisite: 11, 12.

76. RECENT EUROPE: SINCE 1919

3 credit hours

Political, economic, and social sequels to Versailles; the challenge to European dominance and changing relations with Russia and the United States; the rise of totalitarianism in World II and its consequences.

Open to Sophomores and above. Prerequisite: 11, 12.

79. ECONOMIC HISTORY OF THE UNITED STATES 3 credit hours
Open to Juniors and Seniors. Prerequisite: 17, 18. See Economics 71.
81. DIPLOMATIC HISTORY OF THE UNITED STATES 3 credit hours
 Emphasis upon the diplomacy of the early Republic, expansion, the emergence of the United States as a world power, and the use of collective security.
Open to Juniors and Seniors. Prerequisite: 17, 18.
87. AMERICAN CONSTITUTIONAL HISTORY 3 credit hours
 The framing of the Federal Constitution and its historical development, with emphasis on evolving interpretation by the courts.
Open to Juniors and Seniors. Given in alternate years. To be given 1962-63. Prerequisite: 17, 18, or permission of the instructor.
88. AMERICAN HISTORY IN THE CIVIL WAR PERIOD 3 credit hours
 The period from the end of the Mexican War through the Civil War. The background is treated and attention is directed to both military and nonmilitary aspects.
Open to Juniors and Seniors. Given in alternate years. To be given 1962-63. Prerequisite: 17, 18.
90. HISTORIOGRAPHY 3 credit hours
 Analysis of the major interpretations of history, e. g., economic, idealistic, biographic approaches to the understanding of the past. Representative writings of historians of the past and present are used to illustrate differing points of view.
Open to Juniors and Seniors. Prerequisite: 11, 12, 17, 18.
- *91, 92. HISTORY SEMINAR 3 or 6 credit hours
 An introduction to the craft of the historian. Includes discussion of theories on the meaning of history, and study of research methods involving the solution of selected problems. In the second semester the student prepares an extended paper.
Open to Juniors and Seniors. Prerequisite: 11, 12, 17, 18, and at least a 3.00 average in History.
- 101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours
Open to Seniors only. See index.
 Major: 30 semester hours, including 11, 12, 17, 18, and either 90 or 91, and at least 3 hours from each of the following groups:
 Group A: 21, 22, 23, 24, 25, 26, 37, 38, 43, 44, 45, 57, 69, 71, 72, 73, 74, 76.
 Group B: 47, 49, 50, 55, 79, 81, 87, 88.
 Minor: 18 semester hours, including 11, 12, 17, 18.
 NOTE: Students contemplating honors should elect 91, 92 in their Junior year.

LAW

See page 61.

MECHANICAL DRAWING

PROFESSOR DIFFORD

24L. MECHANICAL DRAWING

3 credit hours

Theory and practice of mechanical drawing; lettering, use of instruments; orthographic projections; sectioning; isometric, oblique, and perspective drawings; developments and intersections. Six hours of drawing per week.

Open to Sophomores and above. To be given 1962-63. Prerequisite: Plane Geometry.

MATHEMATICS

ASSOCIATE PROFESSORS KERR, NELSON, MILLER, AND BENSON

ASSISTANT PROFESSOR LIGHT

MISS KNEEN AND MR. MORRISON

Mathematics is generally regarded as one of the best preparations for professions which require accuracy and precise thinking. Calculus and Statistics are basic for advanced work in Economics, Psychology, Sociology, and the Biological Sciences; Calculus and Differential Equations are basic for advanced work in the Physical Sciences. A major in Mathematics may use his knowledge in engineering, in actuarial work, in civil service employment of various kinds, in industrial and business positions, and in teaching mathematics in secondary schools and colleges.

*1, 2. FUNDAMENTAL CONCEPTS OF MATHEMATICS

6 credit hours

This is a study of concepts related to number systems, algebraic laws, functions, limits, applications of limits, and probability. Intended primarily as a terminal course.

*5, 6. BASIC MATHEMATICS

6 credit hours

A tool course designed to cover the basic principles of college algebra and trigonometry. It is intended primarily to satisfy the minimum mathematical requirements to enable premedical and pre dental students to undertake the study of Chemistry and Physics.

*11, 12. ANALYTIC GEOMETRY AND CALCULUS I & II

3 or 6 credit hours

An integrated study of the principles, processes, and applications of analytic geometry and calculus.

Prerequisite: 6 or the equivalent.

13. DESCRIPTIVE STATISTICS: A.

3 credit hours

Introduction to standard methods of statistical analysis: measures of central tendency and variation, confidence intervals, correlation, time series, and index numbers.

Open to Sophomores and above. Open to Freshmen with permission of the instructor. Not open to students with credit for 14 or 23, or Psychology 14.

14. DESCRIPTIVE STATISTICS: B. 3 credit hours

Introduction to standard methods of statistical analysis: measures of central tendency and variation, confidence intervals, and correlation.

Open to Sophomores and above. Open to Freshmen with permission of the instructor. Not open to students with credit for 13 or 23, or Psychology 14.

*15, 16. ANALYTIC GEOMETRY AND CALCULUS III & IV

3 or 6 credit hours

A continuation of analytic geometry and calculus through transcendental functions, formal integration, multiple integrals, infinite series, and partial differentiation, with applications and supporting analytic geometry.

Open to Sophomores and above. Prerequisite: 12.

17. SEMINAR A

1 credit hour

Introduction to the language of sets, symbolic logic, definition, and proof.

18. SEMINAR B

1 credit hour

Fundamental properties of integers, modular arithmetic, rational numbers, irrational numbers, complex numbers, the use of "infinite" in mathematics, the special numbers e and π .

Prerequisite: 17.

19. SEMINAR C

1 credit hour

The axiomatic method, projective transformations, parallelism and infinity, non-euclidean geometry, higher dimensional geometry, dimension concept.

Prerequisite: 17.

23-24. STATISTICS

6 credit hours

A study of frequency distributions, averages, dispersion, moments, the normal curve, probability, binomial and Poisson distributions, tests of hypotheses and significance, curve fitting, regression, and correlation.

Open to Sophomores and above. 23 not open to students with credit for 13 or 14.

Prerequisite for 23: 11, or the equivalent. Prerequisite for 24: 23, or 11 and 13 or 14 with a grade of at least C.

29. NUMBER THEORY

3 credit hours

The development of the number system, arithmetic operations, primes, congruences, totients, Diophantine equations, and continued fractions.

Open to Sophomores and above. Prerequisite: 6 or the equivalent.

30. THEORY OF EQUATIONS

3 credit hours

Methods of determining the roots of an algebraic equation, Sturm's theorem, approximations, determinants, symmetric functions, simultaneous equations, Graeffe's method.

Open to Sophomores and above. Prerequisite: 6 or the equivalent.

37. DIFFERENTIAL EQUATIONS 3 credit hours

A study of elementary differential equations. Ordinary equations of the first and second order, linear equations, power series solutions, partial differential equations, and other topics.

Open to Juniors and Seniors. Prerequisite: 15.

41. FUNDAMENTAL CONCEPTS OF GEOMETRY 3 credit hours

Foundations and evolution of geometry, projective geometry, affine geometry, Euclidean and non-Euclidean geometries, modern abstract geometries.

Open to Juniors and Seniors. Alternates with 55. To be given 1963-64. Prerequisite: 17.

42. TOPICS IN GEOMETRY 3 credit hours

Selected topics in geometry such as projective geometry, solid analytic geometry, differential geometry, or topology.

Open to Juniors and Seniors. Alternates with 56. To be given 1963-64. Prerequisite: 17.

*55, 56. MODERN ALGEBRA I & II 3 or 6 credit hours

A study of selected topics in modern algebra such as set and group theory, linear algebra, vectors, matrices, and determinants.

Open to Juniors and Seniors. Alternates with 41, 42. To be given 1962-63. Prerequisite: 15, 16.

*57, 58. TOPICS IN ADVANCED CALCULUS 3 or 6 credit hours

Real numbers, sequences, functions, limits, continuity, derivative of a function, mean value theorem and consequences, partial derivatives and applications, line and surface integrals, and power series.

Open to Juniors and Seniors. Prerequisite: 16.

91, 92. SEMINAR 1 to 6 credit hours

A reading, research, and conference course in various fields.

Open to Juniors and Seniors. Prerequisite: Permission of the Chairman of the Department.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: 30 semester hours.

Minor: 18 semester hours.

NOTES: 1. The mathematics requirements for the degree of Bachelor of Science may be satisfied by any of the following: Mathematics 1-2, 5-6, or 11, 12.

2. It is recommended that the student who desires to major in Mathematics schedule 11, 12, and 17, 18 during the Freshman year and 15, 16, and 19 during the Sophomore year.

3. It is also recommended that every student intending to become a Mathematics major take Physics 11-12.

MILITARY SCIENCE

PMS: LIEUTENANT COLONEL WILLIAM C. PINSON

ASST. PMS: CAPTAIN RENE C. JACOBS,

CAPTAIN WILLIAM S. SIMPSON, JR.,

AND CAPTAIN FOREST S. RITTGERS, JR.

ENLISTED INSTRUCTORS: MASTER SERGEANTS BEIERSCHMITT AND WOOD;
SERGEANTS FIRST CLASS KISER AND GULLEDGE; SERGEANT PATTON

1-2. MILITARY SCIENCE I

4 credit hours

Drill and Command; Organization of the Army and ROTC; Individual Weapons and .22 cal. Rifle Marksmanship; American Military History. Two hours classroom and two hours drill per week.

Freshman course.

10-11. MILITARY SCIENCE II

4 credit hours

Drill and Command; Map and Aerial Photograph Reading; Basic Tactics; U. S. Army in National Security. Two hours classroom and two hours drill per week.

Sophomore course.

20-21. MILITARY SCIENCE III

6 credit hours

Drill and Command; Leadership; Military Teaching Principles; Branches of the Army; Small Unit Tactics and Communications. Three hours classroom and two hours drill per week.

Junior course.

30-31. MILITARY SCIENCE IV

6 credit hours

Drill and Command; Operations (command and staff, estimate of the situation and combat orders, military intelligence, training management); Logistics; Personnel Management (military administration, military justice); Service Orientation (role of the United States in world affairs, leadership, officer indoctrination). Three hours classroom and two hours drill per week.

Senior course.

NOTE: 1. Enrollees successfully completing MS III are required to attend camp under direct Army supervision for six weeks during the summer. This is normally between their Junior and Senior years.

2. Except in special circumstances (which requires specific approval), students who enroll, either in the Basic Course (Military Science I & II) or in the Advanced Course (Military Science III & IV), must successfully complete the two-year course in which they enroll in order to graduate.

MODERN LANGUAGES AND LITERATURES

PROFESSORS KIRK, WEIGEL*, KENNEDY, MAURINO, AND SANDELS

VISITING PROFESSOR FREY

ASSOCIATE PROFESSORS RAMOS AND ROYCE

ASSISTANT PROFESSORS EDBERG AND RUIZ

MISS DEWIS, MISS WILEY, AND MR. GRAY

MR. KALLY AND MISS BEEKEY

The courses in Modern Languages are designed to provide a well-balanced training in the language and literature for those who elect a major or minor in the Department. Those who do not wish to meet the requirements for a major or minor may elect any courses for which they have the prerequisites as stated in the description of the courses. Work in the Language Laboratory is required for 31, 32, and 41, 42, and is strongly recommended for the other courses.

French

1-2. ELEMENTARY FRENCH *8 credit hours*

Drill in sentence patterns. Special attention to pronunciation and oral work. Composition and reading.

11-12. INTERMEDIATE FRENCH *8 credit hours*

Emphasis on oral work. Readings and composition.

Prerequisite: 1-2, or the equivalent.

*31, 32. FRENCH CONVERSATION AND COMPOSITION *3 or 6 credit hours*

The chief aim of this course is to teach the student to speak and understand the language. Composition with attention to grammar. Course conducted in French.

Prerequisite: 12, or the equivalent, with a grade of at least C.

*33, 34. SURVEY OF FRENCH LITERATURE *3 or 6 credit hours*

A study of masterpieces of French literature.

Prerequisite: 12, or the equivalent, with a grade of at least C.

* Refresher-Year Leave 1961-62.

*41, 42. ADVANCED FRENCH CONVERSATION AND COMPOSITION

3 or 6 credit hours

A continuation of French 31, 32. Course conducted in French.

Prerequisite: 32, or the equivalent, with a grade of at least C.

*51, 52. FRENCH LITERATURE OF THE SEVENTEENTH CENTURY

3 or 6 credit hours

Reading and discussion of representative works of important writers of the century. Collateral readings and reports.

Given in alternate years. To be given 1963-64. Prerequisite: 34, or the equivalent, with a grade of at least C.

*53, 54. FRENCH LITERATURE OF THE EIGHTEENTH CENTURY

3 or 6 credit hours

Reading and discussion of representative works of important writers of the century. Collateral readings and reports.

Given in alternate years. To be given 1963-64. Prerequisite: 34, or the equivalent, with a grade of at least C.

*55, 56. FRENCH LITERATURE OF THE NINETEENTH CENTURY

3 or 6 credit hours

Reading and discussion of representative works of important writers of the century. Collateral readings and reports.

Given in alternate years. To be given 1962-63. Prerequisite: 34, or the equivalent, with a grade of at least C.

*57, 58. FRENCH LITERATURE FROM 1900 TO THE PRESENT

3 or 6 credit hours

Reading and discussion of representative works of important writers of the period. Collateral readings and reports.

Given in alternate years. To be given 1962-63. Prerequisite: 34, or the equivalent, with a grade of at least C.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: French 11-12, 31, 32, 33, 34, 41, 42, and six additional hours chosen from courses numbered above 50, or the equivalent of these courses.

Minor: French 11-12, 31, 32, and 33, 34, or the equivalent of these courses.

NOTE: To elect a major or minor, a student must have attained an inclusive average of at least 2.00 in all French courses taken in college. No grade in the department lower than C may be counted toward the major.

German

1-2. ELEMENTARY GERMAN 8 credit hours

Study of the fundamentals of German grammar. Reading of short stories and poetry. Emphasis on oral expression.

11-12. INTERMEDIATE GERMAN 8 credit hours

Review of the fundamental principles of grammar. Intensive reading of prose and poetry, with emphasis on vocabulary building. Oral practice based on material read.

Prerequisite: 1-2, or the equivalent.

*31, 32. GERMAN CONVERSATION AND COMPOSITION 3 or 6 credit hours

Training in the speaking and writing of everyday German. Intensive review of grammar; course conducted in German.

Prerequisite: 12, or the equivalent, with a grade of at least C.

*33, 34. SURVEY OF GERMAN LITERATURE 3 or 6 credit hours

An introduction to German literature presenting its development from the earliest period to the present time. Lectures on readings from representative works.

Prerequisite: 12, or the equivalent, with a grade of at least C.

*41, 42. ADVANCED GERMAN CONVERSATION AND COMPOSITION 3 or 6 credit hours

A continuation of German 31, 32. Course conducted in German.

Prerequisite: 32, or the equivalent, with a grade of at least C.

*61, 62. GOETHE AND SCHILLER 3 or 6 credit hours

Reading in Goethe's poems and major prose works during the fall semester. The spring semester is devoted to Schiller's ballads, dramas, and prose writings.

To be given 1962-63. Prerequisite: 34, or the equivalent, with a grade of at least C.

65. THE GERMAN LYRIC 3 credit hours

A survey of German lyric poetry from its origins to the present. Reading and discussion of representative authors.

To be given 1963-64. Prerequisite: 34, or the equivalent, with a grade of at least C.

66. THE GERMAN DRAMA 3 credit hours

The development of German drama from the medieval mystery plays to the dramatic productions of modern times. Reading and interpretation of representative dramas.

To be given 1963-64. Prerequisite: 34, or the equivalent, with a grade of at least C.

67. THE GERMAN SHORT STORY

3 credit hours

The development of the *Novelle* from Goethe to Thomas Mann, with special emphasis on the authors identified with Romanticism, Poetic Realism, and modern literary movements. Reading and discussion of representative *Novellen*.

To be given 1962-63. Prerequisite: 34, or the equivalent, with a grade of at least C.

72. HISTORY OF THE GERMAN LANGUAGE

3 credit hours

A study of the various periods of the language, with special emphasis on the influence of individual men and historical circumstances on the development of forms and meanings.

To be given 1962-63. Prerequisite: 12, or the equivalent, with a grade of at least C.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: German 11-12, 31, 32, 33, 34, 41, 42, and six additional hours chosen from courses numbered above 50, or the equivalent of these courses.

Minor: German 11-12, 31, 32, and 33, 34, or the equivalent of these courses.

NOTE: To elect a major or minor, a student must have attained an inclusive average of at least 2.00 in all German courses taken in college. No grade in the department lower than C may be counted toward the major.

Italian

1-2. ELEMENTARY ITALIAN

8 credit hours

Thorough review in grammar. Special attention given to pronunciation and oral work. Composition and graded readings.

Not to be given 1962-63.

11-12. INTERMEDIATE ITALIAN

8 credit hours

Grammar review. Reading and Composition. Emphasis on oral work.

Not to be given 1962-63. Prerequisite: 1-2, or the equivalent.

Russian

1-2. ELEMENTARY RUSSIAN

8 credit hours

Thorough drill in grammar. Special attention given to pronunciation and oral work. Composition and graded readings.

11-12. INTERMEDIATE RUSSIAN

8 credit hours

Grammar review. Reading and composition. Emphasis on oral work.

Prerequisite: 1-2, or the equivalent.

Spanish

- 1-2. ELEMENTARY SPANISH 8 credit hours
 Drill in sentence patterns. Special attention to pronunciation and oral work.
 Composition and reading.
- 11-12. INTERMEDIATE SPANISH 8 credit hours
 Emphasis on oral work. Readings and composition.
Prerequisite: 1-2, or the equivalent.
- *31, 32. SPANISH CONVERSATION AND COMPOSITION 3 or 6 credit hours
 The chief aim of this course is to teach the student to speak and understand the language. Composition with attention to grammar. Course conducted in Spanish.
Prerequisite: 12, or the equivalent, with a grade of at least C.
- *33, 34. SURVEY OF SPANISH LITERATURE 3 or 6 credit hours
 A study of masterpieces of Spanish literature.
Prerequisite: 12, or the equivalent, with a grade of at least C.
- *41, 42. ADVANCED SPANISH CONVERSATION AND COMPOSITION 3 or 6 credit hours
 A continuation of Spanish 31, 32. Course conducted in Spanish.
Prerequisite: 32, or the equivalent, with a grade of at least C.
- *51, 52. SPANISH LITERATURE OF THE GOLDEN AGE 3 or 6 credit hours
 Reading and discussion of representative works of important writers of the Golden Age. Collateral readings and reports.
Given in alternate years. To be given 1963-64. Prerequisite: 34, or the equivalent, with a grade of at least C.
- *55, 56. SPANISH LITERATURE OF THE NINETEENTH CENTURY 3 or 6 credit hours
 Reading and discussion of representative works of important writers of the century. Collateral readings and reports.
Given in alternate years. To be given 1962-63. Prerequisite: 34, or the equivalent, with a grade of at least C.
- *57, 58. SPANISH LITERATURE FROM 1900 TO THE PRESENT 3 or 6 credit hours
 Reading and discussion of representative works of important writers of the period. Collateral readings and reports.
Given in alternate years. To be given 1963-64. Prerequisite: 34, or the equivalent, with a grade of at least C.

*71, 72. SPANISH-AMERICAN LITERATURE 3 or 6 credit hours

A course designed to give the student a survey of Spanish-American literature and civilization and an introduction to some of the more important authors from the colonial period to the present.

Given in alternate years. To be given 1962-63. Prerequisite: 34, or the equivalent, with a grade of at least C.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: Spanish 11-12, 31, 32, 33, 34, 41, 42, and six additional hours chosen from courses numbered above 50, or the equivalent of these courses.

Minor: Spanish 11-12, 31, 32, and 33, 34, or the equivalent of these courses.

NOTE: To elect a major or minor, a student must have attained an inclusive average of at least 2.00 in all Spanish courses taken in college. No grade in the department lower than C may be counted toward the major.

MUSIC

ASSISTANT PROFESSOR ULTAN

MR. MUELLER

The Department of Music offers a variety of courses which are devoted essentially to the historical and theoretical aspects of the field. Completion of a minor in this Department will enable the student to become an active participant in vocal or instrumental ensembles and to develop a broad understanding and intelligent appreciation of a wide variety of music literature. Creative writing is strongly encouraged together with participation in any of several instrumental and vocal ensembles available on campus.

*13, 14. SIGHT READING AND DICTATION 2 or 4 credit hours

The goal of this course is to enable the student to read unfamiliar music at sight. Tonality is introduced with the use of solmization. Intervallic, rhythmic, and melodic dictation are presented with some harmonic dictation offered in the latter part of the course. (Previous training in music is not necessary.)

Requisite: Concurrent participation in one of the faculty-conducted ensembles.

*15, 16. HARMONY 3 or 6 credit hours

Harmonic principles: notation, intervals, rhythm, tonality; composition of original melodies; simple four-part writing through diatonic and some altered chords;

original composition for mixed chorus. (Previous training in music is not necessary; however, concurrent or prior work in Music 13, 14 is recommended.)

Requisite: Concurrent participation in one of the faculty-conducted ensembles.

24. ANALYTICAL STUDIES 3 credit hours

The techniques of analysis are presented as related to small instrumental and vocal forms, and the course of study is directed toward the eventual analysis of large compositions such as the sonata and the symphony. A comparison of styles and techniques of the several historical periods of music is accomplished through analysis of representative works.

Prerequisite: 15. 16 is also recommended.

25-26. ADVANCED HARMONY 6 credit hours

A continuation of the first-year course in Harmony with a study of altered chords; modulation between tonalities; complex chords in thirds; creative writing for vocal and instrumental ensembles. Some principles of contemporary harmonic composition will be treated in the latter part of the course.

Open to Sophomores and above. Prerequisite: 15, 16, written permission of the instructor, and concurrent participation in one of the faculty-conducted ensembles.

31. TWENTIETH CENTURY MUSIC 3 credit hours

Main attention is given to the changes in the aesthetics of twentieth century composers, the many schools of composition which developed, and the various styles and techniques which each of these schools represent. Included in these discussions is a study of the many significant American composers of formal music, jazz, electronic music, and the avant-garde of the present era. (Previous training in music is not necessary.)

41. FUNDAMENTALS OF MUSIC 2 credit hours

An introduction to the elements of music: rhythm, melody, harmony, form, and orchestration. The course is directed at cultivating intelligent listening habits.

42. HISTORY OF MUSIC 2 credit hours

Survey of the history of music from its tribal origins through its evolution into a highly refined art form.

81-82. INSTRUMENTAL SEMINAR 2 credit hours

The problems of instrumental performance, the historical background of instruments, literature of all types of instrumental solo and ensemble playing, and the various styles of instrumental music from the sixteenth century to the present. A combination of three hours of classroom and instrumental study per week. (Previous training in music is not required; however, Music 13, 14 is recommended.)

Prerequisite: Written permission of the instructor and concurrent participation in one of the faculty-conducted ensembles.

83-84. VOCAL SEMINAR

2 credit hours

The problems of vocal production, the history of vocal music, literature for solo and various ensembles, styles, and the techniques of writing for voices. A combination of three hours of classroom and vocal study per week. (Previous training in music is not required; however, Music 13, 14 is recommended.)

Prerequisite: Written permission of the instructor and concurrent participation in one of the faculty-conducted ensembles.

91-92. INSTRUMENTAL SEMINAR

2 credit hours

A continuation of Music 81-82.

Open to Sophomores and above. Prerequisite: 81-82, written permission of the instructor, and concurrent participation in one of the faculty-conducted ensembles.

93-94. VOCAL SEMINAR

2 credit hours

A continuation of Music 83-84.

Open to Sophomores and above. Prerequisite: 83-84, the permission of the instructor, and concurrent participation in one of the faculty-conducted ensembles.

COLLEGE CHOIR

None

A mixed choir of sixty voices meets twice each week and presents several concerts each year. In addition, the choir sings twice each month in the College Chapel. A wide variety of music is performed representing many historical periods and styles, both sacred and secular.

Prerequisite: Audition.

CONCERT AND MARCHING BAND

None

During the first half of the Fall semester this fifty-piece ensemble devotes its attention to the preparation and presentation of programs at the college football games. After the football season the Band prepares concert music for presentation in its own concert programs or together with the vocal ensembles.

Prerequisite: Audition and permission of the Director.

THE CONCERT CHORALE

None

This ensemble of thirty voices, carefully selected for vocal potential and musicianship, presents several public performances each year, both on campus and off campus on tour and on television.

Prerequisite: Audition and permission of the instructor.

ORCHESTRA

None

The College Orchestra presents several concerts each year and frequently combines its resources with those of the choral organizations for the presentation of major works of music literature such as opera, oratorio, masses, and cantatas.

Prerequisite: Audition and permission of the Director.

INSTRUMENTAL ENSEMBLES

None

Several instrumental ensembles (trios, quartets, quintets, and their like) are organized on the campus each year dependent on student interest and the availability of instrumentalists.

Offered upon the request of the students.

OPERA WORKSHOP

None

Auditions are held each year for a program of full operatic production. The combined resources of both the Department of Dramatic Arts and the Department of Music are utilized for the presentation of operas. Recent productions include Hansel and Gretel, Amahl and the Night Visitors, and Die Fledermaus.

Prerequisite: Audition and permission of the Director.

Minor: 19 semester hours, including 13, 14, 15, 16, 24, and 25-26, or the equivalent of these courses.

PHILOSOPHY AND RELIGION

PROFESSOR GOULD

ASSISTANT PROFESSOR BONNEY

MR. WILEY

Philosophy

Courses in Philosophy are designed to teach students to think logically and coherently, to present them with the historical background and significant movements of thought, and to help them to gain a comprehensive view of life and the universe. They are encouraged to think constructively about the central problems of life, to acquire an intelligent concern for values and beliefs, and to formulate critically their own philosophy of life. A preprofessional background is provided for graduate work in Philosophy, and courses are offered which meet the entrance requirements of leading theological schools.

11. INTRODUCTION TO PHILOSOPHY

3 credit hours

A survey of the chief fields of philosophy with special attention to influences of the physical and social sciences. Problems studied include the sources of knowledge, the interpretation of nature, the nature of reality, and the ends of life.

31. ETHICS

3 credit hours

The beginnings and growth of morality, theories of moral life, and application of these theories in the world of action. Discussion of specific problems arising in the everyday life of the individual and of the group in a democracy.

Open to Sophomores and above.

32. LOGIC

3 credit hours

The principles and conditions of correct thinking. A careful examination is made of the nature of proof and the detection of fallacies. The laws of correct reasoning, deductive and inductive, are applied to thinking in everyday life. In the latter part of the course methods of symbolic logic and of scientific investigation receive special attention.

Open to Sophomores and above.

33, 34. PHILOSOPHY AND LIFE OF THE ORIENT

2 or 4 credit hours

The Oriental outlook on life contrasted with the Occidental. The first semester is devoted to a study of the culture, philosophy, and life of the people of India. During the second semester similar attention is given to the people of China.

Open to Sophomores and above.

36. AESTHETICS

3 credit hours

A study of the more significant classical and modern approaches to the philosophy of art, with particular reference to their intellectual and psychological backgrounds.

Open to Sophomores and above. Alternates with 40. To be given 1963-64.

39. PHILOSOPHY OF SCIENCE

3 credit hours

A study of the concepts of modern science, including those of space, time, motion, light, relativity, the atomic world, cause, law, evolution, and value. The methods of science, the role of definitions, axioms, and theorems, and the relationships between science, philosophy, and religion are examined.

Open to Juniors and Seniors. Alternates with 51. To be given 1962-63. Prerequisite: 11 or a Science major.

40. PHILOSOPHY OF RELIGION

3 credit hours

Open to Juniors and Seniors. Alternates with 36. To be given 1962-63. See Religion 40.

41. ANCIENT AND MEDIEVAL PHILOSOPHY

3 credit hours

Textual sources include the Pre-Socratics, some of the more beautiful and dramatic of the Platonic dialogues, selections from Aristotle, and outstanding medieval philosophers.

Open to Juniors and Seniors. Prerequisite: 11.

42. MODERN PHILOSOPHY

3 credit hours

The development of philosophy from 1453 to the present. Special emphasis is placed on the works of Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume, and Kant.

Open to Juniors and Seniors. Prerequisite: 11.

48. CONTEMPORARY PHILOSOPHY 3 credit hours

A study of the twentieth century philosophies of idealism, realism, naturalism, logical empiricism, and existentialism.

Open to Juniors and Seniors. Prerequisite: 11.

51. THE PHILOSOPHY OF PLATO 3 credit hours

The development of the thought of Plato. Texts include the *Republic* and selections from the early, middle, and late dialogues.

Open to Sophomores and above. Alternates with 39. To be given 1963-64. Prerequisite: 11.

53. AMERICAN PHILOSOPHY 3 credit hours

Philosophical thought in the United States from the Colonial period to the present. The main emphasis is on the classic period from the Civil War to World War II, including the thought of C. S. Peirce, William James, Josiah Royce, John Dewey, and George Santayana in the areas of theory of knowledge, philosophy of science, and philosophy of religion.

Open to Juniors and Seniors. Prerequisite: 11.

95, 96. SEMINAR 1 or 2 credit hours

A reading and conference course.

Open to Juniors and Seniors. Prerequisite: Permission of the Chairman of the Department.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: 30 semester hours, including 11, 31, 32, 41, 42, and 48.

Minor: 18 semester hours, including 11, 41, and 42.

NOTE: Students who major in Philosophy may not minor in Religion.

Religion

Courses in Religion help students to understand the realities of the world of the spirit, to uncover motives leading to Christian character, and to foster a spirit of religious unity rather than of dogmatic divisiveness. Attention is given to the history of the great religions of the world, with special emphasis on the Hebrew-Christian religion and a scholarly understanding of the Old and New Testaments. Provision is made for pre-theological training and for those who are planning to do graduate work in Religion.

15. INTRODUCTION TO THE OLD TESTAMENT 3 credit hours

A survey which aims to assist the student in a scholarly approach to the Old Testament, with special reference to the historical and literary setting and the ethical and spiritual content of each book. Emphasis is also placed on the tools of textual interpretation, questions of authorship, history, validity, and religious values.

16. INTRODUCTION TO THE NEW TESTAMENT 3 credit hours

A survey, aimed to assist in a scholarly approach to the New Testament, with special reference to its formation and literary history, the teachings of Jesus, the life and thought of Paul, and the beginnings of the Christian Church. Emphasis is also placed on the tools of textual interpretation, questions of authorship, history, validity, and Christian values.

This course complements Religion 15, but it may be taken separately.

17. THE POETIC AND WISDOM LITERATURE OF THE OLD TESTAMENT

3 credit hours

The Hebrew religion: its poetic and reflective literature; the theological teachings of the Psalms; the practical wisdom and ethics of Proverbs dealing with the successful management of life; the pessimism and skepticism of Ecclesiastes; and the problem of evil and suffering as presented in Job.

Open to Sophomores and above. Given occasionally. Not given 1962-63. Prerequisite: 15.

19. THE HEBREW PROPHETS 3 credit hours

Origin and development of the prophetic movement in Israel; the historical background of each prophet; the prophetic criticism of life; the central ideas of each prophet; and the relevance and significance of the prophets for the life of today.

Open to Sophomores and above. Given in alternate years. To be given 1962-63. Prerequisite: 15.

21. THE LIFE AND TEACHINGS OF JESUS 3 credit hours

A critical study of the Gospels as the source of knowledge concerning Jesus and his teachings. Emphasis is placed on the relevance of the ethical and religious teachings for Jesus' own day and for the present. Selected biographies of Jesus are read to supplement the study of the Gospels.

Open to Sophomores and above.

23. HISTORY OF CHRISTIAN THOUGHT: EARLY AND MEDIEVAL

3 credit hours

Main developments in the life and thought of the Christian Church from the first century through the Middle Ages. Special emphasis on the historic formulations of the Christian faith, growth of the church, and representative theologians.

Open to Sophomores and above. Alternates with 27. To be given 1963-64.

24. HISTORY OF CHRISTIAN THOUGHT: MODERN AND CONTEMPORARY

3 credit hours

A study of the main developments in the life and thought of the Christian Church from the Reformation to the present. Special emphasis on the beliefs and growth of Protestantism and on representative European and American theologians.

Open to Sophomores and above. Alternates with 28. To be given 1963-64.

26. RELIGIONS IN THE UNITED STATES

3 credit hours

A study of the many different forms of religious thought and practice found in the United States from the colonial period to the present. The historical approach is used, and political, social, economic, and scientific factors influencing religious development are pointed out. Emphasis is placed on the understanding of the various denominations and cults, the causes of diversity, and the modern effort toward unity.

Open to Sophomores and above. Given in alternate years. To be given 1963-64.

27. PSYCHOLOGY OF RELIGION

3 credit hours

An examination of the mental processes involved in religious experience. Special attention to the nature of religion, religious attitudes of childhood and adolescence, conversion, worship, prayer, mysticism, the sense of sin and forgiveness, and the belief in God and immortality.

Open to Sophomores and above. Alternates with 23. To be given 1962-63.

28. THE FAITHS OF MANKIND

3 credit hours

A comparative study of the non-Christian religions of the world, including primitive religion and the religions of India, China, Japan, and the Middle East. Emphasis is placed on world-views, ethical teachings, and institutions, and comparisons are made with Christianity.

Open to Sophomores and above. Alternates with 24. To be given 1962-63.

31. ETHICS

3 credit hours

Open to Sophomores and above. See Philosophy 31.

40. PHILOSOPHY OF RELIGION

3 credit hours

The application of the philosophic method to the problem of God, human personality, immortality, et cetera. Religion is studied and evaluated in terms of its affinity with the whole of life experience.

Open to Juniors and Seniors. Alternates with Philosophy 36. To be given 1962-63.

95, 96. SEMINAR

1 or 2 credit hours

A reading and conference course.

Open to Juniors and Seniors. Prerequisite: Permission of the Chairman of the Department.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: 30 semester hours, including 15, 16, 28, and 24 or 26. Sociology 76 may be counted toward this requirement.

Minor: 18 semester hours, including 15. Sociology 76 may be counted toward this requirement.

NOTE: Students who major in Religion may not minor in Philosophy.

PHYSICAL EDUCATION

ASSOCIATE PROFESSOR EAVENSON

ASSISTANT PROFESSORS SEIBERT, DUCHARME, STRAYER, AND GOBRECHT

MRS. BARBER AND MISS BRACHEN

Physical Education is required of all men and women. This work is scheduled in the Freshman and Sophomore years, two hours each week, and earns one credit for each of the four semesters. For transfer students, proof of satisfactory completion of the equivalent amount of Physical Education must be presented. Credit in Physical Education will be given for military service on the basis of two credits for each year of military service. Four credits are required for graduation.

The work is composed of instruction and practice in individual activities of a nature that will have a definite carry-over value, such as golf, tennis, badminton, swimming, squash, volleyball, archery, bowling, first aid, and physical fitness.

PHYSICAL SCIENCE

An interdepartmental offering in the physical sciences including astronomy, chemistry, geology, and physics.

13-14. PHYSICAL SCIENCE

8 credit hours

Basic principles in astronomy, chemistry, geology, and physics. This course, designed for the non-science student, satisfies the science requirement for the degree of Bachelor of Arts. Three hours classroom and two hours laboratory per week.

Open to Sophomores and above. Also open to Freshmen with permission of the Dean of Admission.

PHYSICS AND ASTRONOMY

PROFESSORS YEAGLEY AND LONG

ASSOCIATE PROFESSOR SIA

MRS. BROUGHTON AND MRS. KENDALL

The Department of Physics and Astronomy aims, in all its courses, to develop in the student an understanding of the basic phenomena of the physical environment and the ability to use rigorous quantitative methods in their description and organization.

Two introductory courses are offered in addition to Physical Science 13-14: (1) Elements of Physics, to provide premedical students and science majors with a knowledge of basic principles and training in methods of analysis and laboratory techniques; (2) A more detailed and comprehensive course in Astronomy for science students desiring a greater understanding of the universe.

For science majors and others seeking to pursue further studies in the physical sciences and in engineering, the Department offers advanced courses planned to provide a broad background and to develop analytical skill essential for graduate or professional study. The laboratory work in these courses is designed to acquaint students with laboratory techniques and to give them experience in interpreting and reporting the results.

11-12. ELEMENTS OF PHYSICS

8 credit hours

Mechanics, heat, sound, light, electricity, magnetism. The nature of measurement, experimental verification, and methods of analysis in problem work and in laboratory reports. Three hours classroom and three hours laboratory per week.

Prerequisite: Mathematics 3 or 5-6, or concurrent registration therein.

19. ATOMIC PHYSICS

3 credit hours

Properties of the fundamental particles of matter, atomic structure and spectra, x-ray and electron diffraction, quantum physics, and the dual nature of matter and energy. Laboratory determination of the basic constants of matter and radiation. Two hours classroom and two hours laboratory per week.

Open to Sophomores and above. Prerequisite: 11-12; Mathematics 15, 16, or 21-22, or concurrent registration therein.

21. WAVE MOTION—SOUND AND LIGHT

3 credit hours

Properties of oscillating particles and propagation of waves in material media and vacuum. Reflection and refraction of waves at a boundary; interference, diffrac.

tion, and polarization of electromagnetic waves. Blackbody radiation and the limitations of classical physics.

Open to Sophomores and above. Not open to students who have credit for 43. Prerequisite: 11-12; Mathematics 15, 16, or concurrent registration therein.

23. ASTRONOMY 3 credit hours

The universe as it pertains to laws governing sizes, distributions, and motions of celestial bodies. Methods and results of astronomical explorations of the solar system, milky way, and extragalactic systems.

Open to Sophomores and above. Prerequisite: One year of college mathematics.

41-42. ANALYTICAL MECHANICS 6 credit hours

Geometry, kinematics, and dynamics. Vector algebra and calculus is used throughout. Topics include falling bodies, equilibrium of particles and of rigid bodies, centers of mass, moments and products of inertia, work and energy, power, simple and damped harmonic motion, forced vibrations, and wave motion. Students get practice and facility in developing mathematical formulae and in translating mathematical symbols into physical ideas.

Open to Juniors and Seniors. Not open to students who have credit for 25-26. Prerequisite: 11-12; Mathematics 15, 16, or 21-22.

*47, 48. ELECTRICITY AND MAGNETISM 8 credit hours

The fundamental principles of direct and alternating current theory; electrostatics, magnetostatics, and time varying fields; Maxwell's equations. Three hours classroom and three hours laboratory per week.

Open to Juniors and Seniors. Not open to students who have credit for 31-32.

Prerequisite: 11-12; Mathematics 15, 16, or 21-22, and completion of, or concurrent registration in, Mathematics 31, 32, or 37.

60. BIO-PHYSICS 4 credit hours

Prerequisite: Biology 11-12; Physics 11-12; and permission of the instructor. See Biology 60.

63. PHYSICAL MEASUREMENTS—OPTICS 2 credit hours

Experiments in physical optics and spectroscopy. Experimental technique and interpretation of results is emphasized. One hour classroom and three hours laboratory per week.

Open to Juniors and Seniors. Not open to students who have credit for 44. Prerequisite: 21; Mathematics 15, 16.

66. NUCLEAR PHYSICS 3 credit hours

Elementary particle theory, nuclear structure and decay, energy generation by fusion and fission; interaction of nuclear radiation with matter; radiation detectors

and particle accelerators. Laboratory emphasis on experimental techniques in nuclear energy technology and research. Two hours classroom and three hours laboratory per week.

Open to Juniors and Seniors. Not open to students who have credit for 36. Prerequisite: 19; Mathematics 15, 16.

*67, 68. ELECTRONICS 4 or 8 credit hours

Fundamental principles and applications of the emission and control of electrons. Radio frequency measurements, thermionic tubes, thermistors, transistors, resonant circuits, amplifiers, and oscillators. Three hours classroom and three hours laboratory each week.

Open to Seniors only. Not open to students who have credit for 27-28. Prerequisite: 47-48.

*75, 76. MATHEMATICAL PHYSICS 3 or 6 credit hours

Application to physics of elliptic integrals, infinite series, Fourier series, Gamma, Bessel and Le Gendre functions, partial derivatives and differential equations, vector analysis, and operational calculus. Selected problems in mechanics, heat, optics, electricity and magnetism, and fluid mechanics.

Open to Seniors only. Not open to students who have credit for 45, 46. Prerequisite: 25-26, or 41-42; Mathematics 31, 32, or 37.

77. THEORETICAL PHYSICS 3 credit hours

A mathematical presentation of the general field of theoretical physics, including the application of ordinary and partial differential equations and vector analysis to the mechanics of particles and rigid bodies, oscillatory motion, generalized coordinates, the method of Lagrange and Hamilton, vector fields, and the Maxwell equations of radiation.

Open to Seniors only. Not open to students who have credit for 51. Prerequisite: 41-42.

83, 84. SPECIAL PROBLEMS 1 to 6 credit hours

Special problems in experimental or theoretical physics.

Open to Juniors and Seniors. Prerequisite: Permission of the Chairman of the Department.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: 30 semester hours, including 41-42 and 47-48.

Minor: 18 semester hours.

POLITICAL SCIENCE

PROFESSORS FLOWER AND GAVRILOVIC

ASSOCIATE PROFESSOR FLAHERTY

ASSISTANT PROFESSORS HARPER, SECOR, AND ANDREWS

The Department of Political Science aims to give students an understanding of the political and administrative problems of government *and* the responsibilities of citizenship. The approaches are both theoretical and practical; the areas are local, national, and international. Careful attention is given to the preparation for graduate study. Most students with majors and minors in Political Science enter law, government, and international organizations. Whether or not these courses, oriented into a liberal arts curriculum, are to be used as specialized training, the emphasis in all the courses offered by the Department is upon the fundamental principles underlying enlightened citizenship.

11-12. AMERICAN GOVERNMENT AND POLITICS 6 credit hours

A survey of the structure and operation of the political and governmental systems in the United States.

Open to Sophomores. Open to Juniors and Seniors with permission of the Chairman of the Department.

30. THE CITY 3 credit hours

Social, economic, and political aspects of control in contemporary city life. Case studies of several United States metropolitan communities provide course content, with emphasis on municipal methods for planning. Also named Sociology 30.

Open to Sophomores and above.

35. PUBLIC ADMINISTRATION 3 credit hours

An analysis of the organization and functioning of the national bureaucracy in the light of the problem of executive responsibility in a democratic society. Special attention to administrative behavior, principles of organization and management, administrative federalism, the office of the Presidency, fiscal and personnel administration, and administrative lawmaking.

Open to Juniors and Seniors. Prerequisite: 11-12.

36, 38. COMPARATIVE GOVERNMENT 3 or 6 credit hours

The nature, organization, and operations of a modern European government. The first term places major emphasis on Great Britain and the USSR, while the second semester stresses France, West Germany, and Switzerland.

Open to Juniors and Seniors. Prerequisite: 11-12, or permission of the instructor.

37. INTERNATIONAL RELATIONS

3 credit hours

An examination of the basic factors affecting relations between states, such as economic, geographic and demographic; the evolution of international relations and the place of power politics in the modern world.

Open to Sophomores and above.

41. AMERICAN POLITICAL THOUGHT

3 credit hours

The development of political ideas in America, stressing foreign influences on early Colonial thought and those influences indigenous to the growth of American Democracy. Colonial political ideas, the development of the Constitution, the Federalist Papers, State rights philosophy vs. centralized government, and contemporary interpretations.

Open to Juniors and Seniors. Prerequisite: 11-12, or permission of the instructor.

History 17-18 is desirable.

43. STATE AND LOCAL GOVERNMENTS

3 credit hours

A study and analysis of state and local governments with special emphasis on administrative problems. Group sessions are arranged with selected state and municipal officials. Attention will be given to pressures exerted on community leadership.

Open to Juniors and Seniors. Prerequisite: 11-12.

44. INTERNATIONAL ORGANIZATION

3 credit hours

A treatment of the organizations through which states have dealt with their common problems in the past: the League of Nations, World Court, and International Labor Organization, with emphasis on the organization of the postwar world, the United Nations, and specialized agencies.

Open to Sophomores and above.

*45, 46. CONSTITUTIONAL LAW

3 or 6 credit hours

An analysis of leading Supreme Court interpretations of the Constitution. Emphasis on concepts of judicial review, separation of powers, federalism, interstate commerce, obligation of contracts, due process, equal protection of the laws, and political and religious liberty. Introduction to legal research.

Open to Juniors and Seniors. Prerequisite: 11-12.

48. FAR EASTERN GOVERNMENT AND POLITICS

3 credit hours

Contemporary governmental and political systems of China and India in historical and philosophical perspective. Particular emphasis upon the revolution and communism in China, the development of democratic neutralism in India, and problems arising from the political, social, and economic reconstruction of the Far East. The interests of the United States, Great Britain, and the USSR in the Far East are examined.

Open to Sophomores and above.

50. POLITICAL SOCIOLOGY

3 credit hours

Open to Juniors and Seniors. See Sociology 50.

51. LATIN AMERICAN GOVERNMENT AND POLITICS

3 credit hours

A survey of governmental structure and political dynamics in the principal Latin American countries. Special attention to the underlying historical, economic, and religious foundations of the contemporary revolution in Latin American politics.

Open to Sophomores and above.

52. INTER-AMERICAN RELATIONS

3 credit hours

The institutions of the Organization of American States, including constitutional and other aspects of the early nineteenth and twentieth-century continental union. Emphasis on Pan-Americanism and its contemporary significance, achievements, and problems.

Open to Juniors and Seniors.

53. EVOLUTION OF POLITICAL THOUGHT

3 credit hours

An analysis of the development of significant political ideas from the Greek City-State to the eighteenth century. Contributions to modern ideas and trends in government.

Open to Juniors and Seniors.

54. RECENT POLITICAL THOUGHT

3 credit hours

Examination of significant political thought concerning the origin, nature, and functions of the State from the Age of Reason to the present. Socialism, fascism, and democracy. Emphasis on the conflict between democracy and authoritarianism.

Open to Juniors and Seniors.

55. POLITICAL BEHAVIOR

3 credit hours

Cultural, social, and psychological factors which contribute to forms and directions of political behavior, together with leading conceptual approaches and examples from contemporary political affairs.

Open to Juniors and Seniors. Prerequisite: 2 semesters of Political Science and 2 semesters of Psychology or Sociology, or permission of the instructor.

56. PUBLIC OPINION AND PROPAGANDA

3 credit hours

The formation and control of public opinion in a democracy. Analysis of mass communication (press, radio, film, and TV); propaganda techniques; the causation of social attitudes; problems of public opinion polling. (Also named Sociology 56.)

Open to Juniors and Seniors. Prerequisite: 6 hours of Political Science or Sociology.

57. POLITICAL PARTIES 3 credit hours

A study of the party system in the United States: strengths and weaknesses, functions and techniques, the electorate, government and political parties, political parties and pressure groups.

Open to Juniors and Seniors. Prerequisite: 11-12.

60. MECHANICS OF AMERICAN FOREIGN POLICY 3 credit hours

An analysis of the machinery through which foreign policy is formed and executed, including a topical study of courses of action open to the United States, non-entanglement, the Good-Neighbor policy, the Monroe Doctrine, the policy of the United States as a member of the United Nations, the policy of containment, and current problems.

Open to Juniors and Seniors. Prerequisite: 11-12, or permission of the instructor.

61. PROBLEMS OF AMERICAN GOVERNMENT 3 credit hours

Basic problems of American government in relation to national and international events. Designed for non-majors and non-minors in Political Science, the course is intended to acquaint students with government organization and to reveal enduring problems faced by our government in changing situations.

Open to Juniors and Seniors. Not open to students who have credit for 11-12.

64. INTERNATIONAL LAW 3 credit hours

A study of the fundamental principles of law governing the conduct between states, especially as interpreted and applied by the United States.

Open to Juniors and Seniors.

66. THE POLITICS AND POLICIES OF THE SOVIET UNION 3 credit hours

The recent institutional and theoretical development of the Soviet state. Special emphasis upon the principal ingredients of the Soviet monolith: Communist ideology, the Party, the Army, and the use of terror, bureaucracy, planned economy, and Communism, as a world movement. The purpose of the course is to provide a background for informed analysis and evaluation of the Soviet totalitarian challenge to American democratic values and institutions.

Open to Juniors and Seniors.

95. SEMINAR 3 credit hours

A research and conference course required of all Senior majors who are not taking 101-102.

Open to Seniors only. Prerequisite: Major in Political Science.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours
Open to Seniors only. See index.

Major: 30 semester hours.

Required: Political Science 11-12, 95 or 101-102, and one course from each of the following groups:

Group 1: 30, 35, 43, 45, 46

Group 2: 37, 44, 52, 60, 64

Group 3: 41, 53, 54

Group 4: 36, 38, 48, 51

Group 5: 55, 56, 57

Remaining hours optional.

Minor: 18 semester hours, including Political Science 11-12.

NOTE: Students who plan to make Political Science their major field of study should arrange to take Political Science 11-12 in their Sophomore year.

PSYCHOLOGY

SEE EDUCATION AND PSYCHOLOGY

PUBLIC SPEAKING

PROFESSOR SCHECTER

ASSOCIATE PROFESSOR COUTTS

ASSISTANT PROFESSOR BRUBAKER

The courses in Public Speaking are directed toward improvement in verbal communication and toward the development of greater self-assurance and ease in social and professional situations.

21. ORAL INTERPRETATION 3 credit hours

Training in the principles of effective oral reading through the use of the best in prose and poetry; development of the speaking voice; choral reading.

Open to Sophomores and above.

*23, 24. ARGUMENTATION AND DEBATE 3 or 6 credit hours

First semester: The theory and practice of persuasive speaking and debate. Second semester: The emphasis is on participation in classroom debates.

33. PUBLIC SPEAKING 2 credit hours

The theory of and practice in the fundamentals of public speaking.

Open to Juniors and Seniors.

51. ADVANCED PUBLIC SPEAKING

2 credit hours

While this is a continuation of Public Speaking 33, increased attention is given to speech structure and to filling various specific speech situations.

Open to Juniors and Seniors. Offered occasionally. Prerequisite: 33.

RELIGION

SEE PHILOSOPHY AND RELIGION

SOCIAL SCIENCE

ASSOCIATE PROFESSOR FLAHERTY

ASSISTANT PROFESSORS HARPER, CARSON, HOUSTON, AND B. ANDREWS

MR. SEAFORD

Interdepartmental offerings in the social sciences which include Economics, Political Science, Psychology, and Sociology.

11-12. INTRODUCTION TO SOCIAL SCIENCE

6 credit hours

Concepts basic to economics, political science, and sociology are developed. Culture, power, the market, social control, change, communication, and the techniques of social science are emphasized through class discussions, library, and field projects.

SOCIOLOGY

PROFESSOR KEPNER

ASSISTANT PROFESSOR KUHINKA

MR. SEAFORD

30. THE CITY

3 credit hours

Open to Sophomores and above. See Political Science 30.

32. PRINCIPLES OF SOCIOLOGY

3 credit hours

An introduction to the primary concepts of sociology, including culture and personality, groups, communities and social stratification, population trends and human ecology, social institutions, processes of social interaction, and the conditions and modes of social change.

Open to Sophomores and above. Also open to Freshmen with permission of the instructor.

33. GROUP DYNAMICS

3 credit hours

Study of small group behavior, with emphasis upon varieties of group structure, leadership, and quality of performance. Some practice in the solution of group problems and experimentation with techniques for improving performance.

Open to Sophomores and above. Given in alternate years. To be given 1962-63.

Prerequisite: 32 or Psychology 11.

34. CULTURAL ANTHROPOLOGY

3 credit hours

A comparative treatment of various preliterate and modern cultures: their social organization, technology and ideology. Dynamics of cultural change. Approaches to the science of culture through linguistics and archaeology.

Open to Sophomores and above. Prerequisite: Social Science 11-12, or permission of the instructor.

35-36. INTRODUCTION TO SOCIAL WORK

4 credit hours

Analysis of economic and socio-psychological factors relevant to the development of social work; the structure and function of social work and public welfare in contemporary society; examination of outstanding theories and of methods of case work, group work, and community organization. Field trips to social agencies.

Open to Juniors and Seniors. Given occasionally. Not to be given 1962-63. Prerequisite: 32, or Psychology 11, or Social Science 12, with a grade of at least C.

35L, 36L. SUPERVISED FIELD WORK

1 or 2 credit hours

Practical experience in serving agencies in Harrisburg, Carlisle, and vicinity. Students will work under the supervision of the instructor and of the agency supervisor. Four hours field work one afternoon a week.

Open to Juniors and Seniors. Given occasionally. Not to be given 1962-63. Prerequisite: 35, or concurrent registration in 35-36 and permission of the instructor.

37. PHYSICAL ANTHROPOLOGY

3 credit hours

The course and mode of human evolution. Man's place among the vertebrates. Anatomy and behavior of primates. Races of man. Anthropometry and its contribution to modern technology. Evolution and Religion.

Open to Sophomores and above. Prerequisite: Social Science 11-12, or permission of the instructor.

38. CULTURE AND PERSONALITY

3 credit hours

The evolutionary emergence of personality. Man as a product of society. Personality development in different cultures.

Open to Sophomores and above. Prerequisite: 32 or 34, or permission of the instructor.

47. CRIMINOLOGY

3 credit hours

The nature, causation, and treatment of delinquency and crime. Examination of case histories and statistical studies. Consideration of proposals for the prevention of crime and the improvement of penal procedures. Field trips.

Open to Juniors and Seniors. Prerequisite: Social Science 11-12, or permission of the instructor.

49. POPULATION

3 credit hours

Population, its volume, growth, trends, composition; the relation of population units in their various aspects to economic, social, and political forces and institutions.

Open to Sophomores and above. Given in alternate years. To be given 1963-64. Prerequisite: 32 or permission of the instructor.

50. POLITICAL SOCIOLOGY

3 credit hours

Social forces affecting the origin of the State and divergent lines of political development. Comparison between democracy and other political systems in respect to quality of participation, the development of personality, social control, social change, and the politico-economic institutional complex. The State in international relations. (Also named Political Science 50.)

Open to Juniors and Seniors. Given in alternate years. To be given 1963-64. Prerequisite: 32.

56. PUBLIC OPINION AND PROPAGANDA

3 credit hours

The formation and control of public opinion in a democracy. Analysis of mass communication (film, press, radio, and television); propaganda techniques; the causation of social attitudes; problems of public opinion polling. (Also named Political Science 56.)

Open to Juniors and Seniors. Prerequisite: 6 hours of Sociology or Political Science.

57. THE NEGRO AMERICAN

3 credit hours

The historical antecedents, social institutions, achievements, and problems of Negro Americans. The nature and effects of prejudice and discrimination. Current trends in race relations in the United States.

Open to Sophomores and above.

60. CULTURE AND RACE RELATIONS

3 credit hours

Racial differences and cultural variations, colonialism, discrimination and prejudice, and the major forms of social interaction between ethnic and racial groups. The cultural and racial backgrounds of the current nationalistic movements and social conflicts throughout the world.

62. METHODS OF SOCIAL RESEARCH 3 credit hours

The study and application of basic methods of social research. Interviewing techniques, participant observation, sampling techniques, the experimental method, and the use of the schedule and questionnaire in the study of social attitudes.

Open to Juniors and Seniors. Prerequisite: 32 or permission of the instructor.

63. THE FAMILY 3 credit hours

A sociological analysis of the family, comparing family, child-rearing, and sexual customs of preliterate, ancient, and modern societies; recent changes in the American family; socialization and personality development of the child within the family; problems of family organization.

Open to Juniors and Seniors. Prerequisite: Social Science 11-12, or permission of the instructor.

65. PEOPLES AND CULTURES OF THE SOVIET UNION 3 credit hours

The major social institutions of the USSR, as conditioned by Russian traditions, ideology, and political power. Ethnic minorities and their cultures. The individual and the state, social stratification, and cultural change.

Open to Sophomores and above. Given in alternate years. To be given 1962-63. Prerequisite: Social Science 11-12, or permission of the instructor.

*67, 69. COMPARATIVE NON-WESTERN CULTURES: ASIA 3 or 6 credit hours

Comparison of major cultures of the Far East. Emphasis upon fundamental values, land systems, village life, urbanization, the family, social stratification, social control, and dominant personality traits. The diffusion of Chinese, Indian, Moslem, Western, and Communist culture traits and complexes. Problems resulting from social and cultural change. Semester I: China, Japan, and Korea. Semester II: India and the countries of Southeast Asia.

Open to Sophomores and above. Not open to students with credit for 67. Prerequisite: 32, 34, or 60, or permission of the instructor.

68. COMPARATIVE NON-WESTERN CULTURES: AFRICA 3 credit hours

Comparison of major cultures of Africa. The impact of Islam and western colonialism upon native cultures. Emphasis upon fundamental values, land systems, village life, urbanization, the family, social stratification, social control, and dominant personality traits. Problems resulting from social and cultural change.

Open to Sophomores and above. Prerequisite: 32, 34, or 60, or permission of the instructor.

73, 74. PEOPLES AND CULTURES OF LATIN AMERICA 2 or 4 credit hours

A comparison of Latin American nations in respect to racial composition, social heritage, cultural change, and current problems. Analysis of basic social institutions

and description of various types of communities. Primary emphasis on Argentina, Brazil, and Mexico.

*Open to Sophomores and above. Given in alternate years. To be given 1963-64.
Prerequisite: 32, or 34, or permission of the instructor.*

76. THE SOCIOLOGY OF RELIGION 3 credit hours

Social aspects of religion and religious aspects of society; the impact of social and ecological forces upon religious organizations; and the role of religion in social control and social change.

*Open to Sophomores and above. Given in alternate years. To be given 1963-64.
Prerequisite: 32, or Social Science 11-12, or permission of the instructor.*

77, 78. COMPARATIVE SOCIAL THEORY 3 or 6 credit hours

A systematic analysis of the outstanding theories of social structure, social dynamics, and social change. Contributions of the major theorists are explored in depth. Semester I: Social thought in Asia, and in Europe before Comte. Semester II: Modern sociological theories.

Open to Juniors and Seniors. 78 is not open to students with credit for 71. Prerequisite: 6 hours in Sociology, including 32.

101-102. INDEPENDENT STUDIES AND HONORS COURSE 6 credit hours

Open to Seniors only. See index.

Major: 30 semester hours, including 32, 62, 78, and either 65, 67, 68, or both 73 and 74. In addition, Mathematics 13 or 14 or 23-24 is required. Six of the 30 semester hours may be taken from the following courses: Economics 21-22, 53, 76, and 78; English 37, 38, and 67; History 49, 50, 57, 58, and 76; Philosophy and Religion 39, 48, and 53; Political Science 37, 41, 53, and 54; Psychology 23, 37, 38, 41, and 57, 58.

Minor: 18 semester hours, including 32 and at least one of the following courses: 34, 50, 62, 67, 68, or 78.

IV

*Endowed and Named Chairs, Scholarships,
Student Aid, Prizes, Degrees and Honors
Conferred, Register of Students, Alumni
Association and Clubs, Parents
Advisory Council*

Endowed and Named Chairs

THE College has a number of endowed and named chairs. The holders of these chairs are elected by the Board of Trustees and the chairs which they hold are indicated in the faculty list. The endowed chairs are as follows:

THE LEMUEL T. APPOLD FOUNDATION, endowing the chair of the President of the College, was established by the Board of Trustees from a part of the bequest of Lemuel T. Appold of Baltimore, Maryland, of the Class of 1882 and a generous benefactor of the College.

THE ROBERT COLEMAN CHAIR of History. The bequest of Robert Coleman, Esq., of Lancaster, Pennsylvania, was designated by the Board of Trustees in 1828 for the endowment of a professorship, making this one of the oldest American professorships. The professorship was reactivated in 1948.

THE THOMAS BEAVER CHAIR of English Literature was endowed by Thomas Beaver, Esq., of Danville, Pennsylvania in 1889.

THE SUSAN POWERS HOFFMAN CHAIR of Mathematics was endowed in 1923 and named in memory of Susan Powers Hoffman of Carlisle.

THE ASBURY J. CLARKE CHAIR of Latin was established in 1919 by the gift of the widow of Asbury J. Clarke, of the Class of 1863.

THE RICHARD V. C. WATKINS CHAIR of Psychology was endowed in 1928 by the bequest of Richard V. C. Watkins, of the Class of 1912.

THE MARTHA PORTER SELLERS CHAIR of Rhetoric and the English Language is an endowed professorship established in 1936 by a gift of her son, the late Professor Montgomery Porter Sellers, of the Class of 1893.

THE BOYD LEE SPAHR CHAIR of American History was endowed in 1949 by the gift of Boyd Lee Spahr, of the Class of 1900.

THE GEORGE HENRY KETTERER and BERTHA CURRY KETTERER CHAIR of Religion was endowed in 1949 by the gifts of George Henry Ketterer, of the Class of 1908, and his wife, Bertha Curry Ketterer.

THE ROBERT BLAINE WEAVER CHAIR of Political Science was endowed by the bequest of Laura Davidson Weaver, and named for her brother, Robert Blaine Weaver, of the Class of 1874.

THE C. SCOTT ALTHOUSE CHAIR of Chemistry was established in 1950 and named for C. Scott Althouse, a trustee of the College.

THE ALFRED VICTOR DUPONT CHAIR of Chemistry, named for Alfred Victor duPont, a student at the College, 1814-16, was established in 1950 by the gift of his grandson, Irénée duPont, of Wilmington, Delaware.

THE THOMAS BOWMAN CHAIR of Religion was endowed in 1951 by the gift of the Kresge Foundation (Sebastian S. Kresge, L.H.D., Founder), and named for Thomas Bowman of the Class of 1837, the first graduate of Dickinson College to be elected a Bishop of the Methodist Episcopal Church.

THE HENRY FORD CHAIR of Education was established in 1956 and named for Henry Ford in recognition of the Ford Foundation's selection of Dickinson College in 1954 for the Accomplishment Award for improving the salary and status of the Faculty.

THE EDSSEL FORD CHAIR of Economics was established in 1956 and named for Edsel Ford in recognition of the educational statesmanship of the Ford Foundation in its 1954 gifts to privately supported colleges.

THE JOSEPH PRIESTLEY CHAIR of Natural Philosophy was established in 1959 by gifts of William H. Baker and S. Walter Stauffer in memory of Salome Baker Stauffer.

THE WILLIAM W. EDEL CHAIR in the Humanities was endowed in 1959 by the gift of Merle W. Allen, a college trustee, and his wife, Elizabeth Frederic Allen, "in recognition and commemoration of Dr. Edel's outstanding leadership as President of the College from 1946-1959."

A number of other chairs are partially endowed.

Honor Scholarships and Prizes

FOR GENERAL EXCELLENCE IN SCHOLARSHIP

SOPHISTERS. By action of the Board of Trustees, and in keeping with an old Dickinson tradition, the highest-ranking junior is named Senior Sophister for his final year in College, while the highest-ranking sophomore is named Junior Sophister for the following year. The distinction of Senior and Junior Sophisters carries with it a full-tuition scholarship.

1961-62 SENIOR SOPHISTER, Carol E. Jones

1961-62 JUNIOR SOPHISTER, John R. McClelland, Thomas R. Stretton, Jr.

THE JAMES FOWLER RUSLING PRIZE of \$100, the income augmented from the \$1,000 gift of General James Fowler Rusling, LL.D., Class of 1854, is awarded to that student of the Senior Class who, at the end of a four-year course, shall be found to excel in scholarship and character.

Awarded 1961 to Elizabeth Anne Keat.

THE WILLIAM K. DARE HONOR SCHOLARSHIP, in memory of William K. Dare, Class of '83, Professor of Education and Psychology, 1893-99, is awarded annually

to that male student of the Freshman, Sophomore, or Junior Class who has attained the highest scholastic average in the work of the previous year. For this purpose the late Lemuel T. Appold, Esq., Class of '82, the lifelong friend of Professor Dare, gave the College a capital fund of \$5,000. The scholarship, consisting of \$250, is awarded at commencement time, and is credited to the recipient on tuition the following year.

Awarded 1961 to John R. McClelland.

Awarded 1961 to Thomas R. Stretton, Jr.

THE HUFSTADER SENIOR PRIZES, two prizes of \$200 each, one for the senior man student and the other for the senior woman student who, in the judgment of the President of the College, have contributed most to the good of the College during the entire four years. These prizes are endowed by a gift from Dr. William F. Hufstader.

Awarded 1961 to Stanley W. Lindberg and Lois A. Mecum.

THE DELAPLAINE MCDANIEL PRIZES. \$5,000 was given by the late Delaplaine McDaniel, of Philadelphia, as a scholarship fund providing three prizes offered annually to two members of the Freshman Class and to one member of the Sophomore Class for excellence in scholarship. Awards for 1961:

Sophomore Prize, \$100—to Nancy G. Arndt.

Freshman Prize, \$100—to John P. Laszlo.

Freshman Prize, \$50.00—to Melvin S. Blumenthal.

THE JOHN PATTON MEMORIAL PRIZES, four in number, of \$25 each, one for each of the college classes, established by the \$2,000 gift of the late Honorable A. E. Patton of Curwensville, as a memorial to his father, Gen. John Patton, for many years a trustee of the College, are awarded annually for high scholastic standing. Awards for 1961:

Senior Class—to Frederick S. Richardson.

Junior Class—to William F. Weigle.

Sophomore Class—to Nancy G. Arndt.

Freshman Class—to James H. Woodring.

FOR EXCELLENCE IN SPECIAL FIELDS

THE RUTH SELLERS MAXWELL SCHOLARSHIPS in English Literature, established in 1945 by the \$5,000 gift of Robert H. Maxwell, of the Class of 1915, in memory of his wife, Ruth Sellers Maxwell, of the Class of 1915, who for many years was a teacher of English Literature, to be awarded annually for excellence in scholarship, for the highest scholastic standing in any course in English literature. Awards for 1961:

Senior Prize, \$100—to Ruth Anne Briner.

Junior Prize, \$75—to Elane L. Foreman.

Sophomore Prize, \$50—to Alice E. Knox.

Freshman Prize, \$25—to Melvin S. Blumenthal.

THE WILLIAM LENNOX AVIS PRIZE IN UNITED STATES HISTORY of \$25, the income from a fund of \$450, the bequest of Minnie Woods Avis.

Awarded 1961 to Kenneth R. Bowling.

THE HENRY P. CANNON MEMORIAL PRIZE, income of a fund of \$500 voted by the Trustees in 1932 in honor of Henry P. Cannon, Class of '70, to continue the award given by him for many years "to that member of the Sophomore Class who shall pass the most satisfactory examination in the Mathematics of the Sophomore year, together with the original Geometry of the Freshman year."

Awarded 1961 to John R. McClelland.

THE MERVIN GRANT FILLER MEMORIAL PRIZE of \$50, the income from a \$1,000 bequest of Tolbert J. Scholl, of Mechanicsburg, Pa., in memory of Dr. Mervin G. Filler, President of the College, 1928-31, to be awarded annually at Commencement to a student of the College for excellence in the study of the classical languages.

Awarded 1961 to Elizabeth Anne Keat.

THE CHI OMEGA FRATERNITY PRIZE of \$25, the gift of the Dickinson chapter, is an award made to that junior or senior woman who excels in Economics, Political Science, Sociology, or Psychology.

Awarded 1961 to Frances L. Enseki.

THE CLASS OF 1902 AWARD. A gold watch made possible by a gift of \$2,500 from the Class of 1902, and awarded annually to that member of the Junior Class who, by the vote of his classmates, shall be adjudged the most all-around Dickinsonian. Established in June, 1927.

Awarded 1961 to Richard Tull.

THE JOSEPH MIDDLETON AND ISABEL MULLIN BURNS MEMORIAL PRIZE of \$50, the annual income from \$1,000, the contribution of their daughter, Mrs. Helen Burns Norcross, Class of 1912 and former Dean of Women. This award is to be given annually to the woman student who attains the highest scholastic average during the Sophomore year.

Awarded 1961 to Barbara R. Geyer.

THE JOSEPH CLEMENS PRIZE of \$25, a gift of Joseph Clemens, Class of 1894, Chaplain in the U. S. Army, is awarded annually to a student of the Junior Class for the best essay on foreign missions.

Not awarded 1961.

THE CHARLES MORTIMER GIFFIN PRIZE IN ENGLISH BIBLE of \$25, the income of a fund of \$500, is awarded annually to a student of the Senior Class of English Bible.

Awarded to Alan S. Brown.

THE WILLIAM W. LANDIS MEMORIAL PRIZE IN MATHEMATICS of \$50, the income from a fund of \$1,000 given by his cousin, George G. Landis, of the Class of 1920,

in memory of Dr. William W. Landis, Professor of Mathematics from 1895 to 1942, to be awarded for excellence in the mathematics of the Freshman year.

Awarded 1961 to Janet A. Pagdin.

THE ALICE AND F. CHAPLINE MOOREHEAD AWARD of \$50, the income of a fund of \$1,000, to be awarded to that member of the Sophomore Class who has shown the most improvement in overall scholastic achievement during his or her Sophomore year. This award has been presented by Caroline Moorehead Elder in loving memory of her parents.

Awarded 1961 to Wayne N. Cordes.

THE WILBUR HARRINGTON AND HELEN BURNS NORCROSS PRIZE of \$50 created in the will of Helen Burns Norcross, former Dean of Women, the annual income from a fund of \$1,000, in memory of her husband, Professor Wilbur Harrington Norcross, head of the Psychology Department from 1916 to 1941, to be awarded for excellence in Psychology during the Junior year.

Awarded 1961 to Julia A. Kerstetter.

THE SAMUEL L. NORMAN MEMORIAL PRIZE of \$100 in Modern European History, presented by Herbert Norman, Class of 1955.

Awarded 1961 to Robert G. Holt, Jr.

THE WELLINGTON A. PARLIN SCIENCE SCHOLARSHIP AWARD of \$100, the income from a fund given to the College by Dr. Wellington A. Parlin, Professor Emeritus of Physics, awarded annually to that junior majoring in Biology, Chemistry, or Physics, who has, during the three years at Dickinson College, attained the highest general scholastic average, and is applied to his college account for his Senior year. If in any year the student to whom the award is made does not return as a student for the following year, the amount granted him shall then be used by the College for general college purposes.

Awarded 1961 to William F. Weigle.

THE GAYLARD H. PATTERSON MEMORIAL PRIZE of \$25, the income of a fund of \$500, a memorial to Professor Gaylard H. Patterson, the founder of the Social Science Department in the College, to be awarded to that student in Sociology who presents the best sociological analysis of a public policy. The judges of the essay are to be members of the Division of Social Science.

Awarded 1961 to Mary A. Risser.

THE MORRIS W. PRINCE HISTORY PRIZE of \$25, the income of a fund of \$455, the gift of the Class of 1899, for excellence in History.

Awarded 1961 to Barry R. Wickersham.

THE MILTON S. REES PRIZE of \$25, the gift of the Reverend Milton S. Rees, D.D., Rochester, N. Y., is awarded to that student who shall excel in English Bible.

Awarded 1961 to Sally L. Phillips.

THE WINFIELD DAVIDSON WALKLEY PRIZES of \$25 and \$15, the income of a fund amounting to \$993.16, endowed by D. R. Walkley, D.C.L., in memory of his son, Winfield Davidson Walkley, are awarded as first and second prizes, respectively, to those members of the Freshman Class who shall excel in declamation, either forensic or dramatic. Awards for 1961:

First Prize, \$25—to Janice L. Endrizzi.

Second Prize, \$15—to Lynn S. Davis.

ANGELINE BLAKE WOMER MEMORIAL PRIZE of \$75, the income of a fund of \$1,500, to be awarded each year to that student of the Freshman Class who attains the highest grade in rhetoric and composition.

Awarded 1961 to Roberta L. Williams.

THE GOULD MEMORIAL DRAMA PRIZES, two permanent trophies, value \$1,200, donated by Dr. Herbert M. Gould, in memory of his father, William H. G. Gould, and mother, Myrtle Drum Gould, to be retained by the College, but engraved each year with the name of the man student and woman student who, in the judgment of the President of the College, has made the greatest contribution to the program of dramatic productions of the College.

Awarded 1961 to Wayne H. Claeren and Margot D. Rice.

Presidential Scholarships

PRESIDENTIAL SCHOLARSHIPS. By action of the Trustees of the College eight Presidential Full Tuition Scholarships were established in commemoration of the Tenth Anniversary of the Inauguration of President Emeritus William Wilcox Edel. Four of these scholarships are at large, two are assigned to Carlisle, one to Harrisburg and one to Baltimore. Normally two Presidential Scholarships will be awarded each year. Scholarships once awarded will be renewed each year provided the recipient maintains satisfactory character and scholarship.

Awarded 1961-1962 to:

William F. Weigle	Senior
M. Carol Durbin	Junior
Marybeth Heffner	Sophomore
Glenn E. Hitchens	Sophomore
Bettykay Griesemer	Freshman

Scholarships and Student Aid

THE College provides several types of assistance for worthy students in financial need. A number of special loans and scholarship funds have been established over the years by friends of the College, awards from which are made by the donors or by the President on the basis of merit and need. Supplementing these funds, the College annually sets aside from its budget a sum to be used for the several forms of student aid described below.

SCHOLARSHIP AWARDS are made to certain outstanding students with due consideration given to need. Dickinson utilizes the College Scholarship Service sponsored by the College Entrance Examination Board. On the regular application form, the applicant indicates an interest in scholarship assistance. The appropriate forms are available from the student's secondary school. Final decisions on requests for assistance are made by the Scholarship and Student Aid Committee of the College.

GRANTS-IN-AID are available to students who offer high promise of usefulness but who have not achieved scholastic distinction. Such awards are restricted to those who cannot meet the full expense of their college program through incidental employment without serious detriment to their academic work.

STUDENT LOANS are available under the terms of Title II of the National Defense Education Act of 1958 (Public Law 85-864) as well as from the college funds listed on pages 153-154.

Financial assistance is normally awarded for the full academic year. The College reserves the right, however, to review individual cases at any time. Normally financial aid is not continued to students on probation. Students who have received financial aid may count upon its renewal, though not necessarily in the same amount or category, subject to the following conditions:

1. The attainment of a satisfactory scholastic record;
2. The maintenance of a high standard of conduct;
3. The continued existence of financial need; and
4. The exercise of strict economy.

All students, except as noted, desiring renewal of financial aid must make application therefor on the "Application for Renewal of Financial Aid" form by May 1. Students whose economic circumstances have changed significantly (over \$500) since the initial award to them of financial assistance by the College must use the form provided by the College Scholarship Service in applying for renewal.

Complete information concerning these several types of financial assistance, including all necessary forms, can be obtained from the Office of the Dean of the College.

Foundation Scholarships

NATIONAL METHODIST SCHOLARSHIPS are available to a number of students. These scholarships are based on recommendation from the pastor of the student's home church, interest and experience in Methodist activities, and high scholarship.

Applications for these scholarships should be made to the President's Office of the College.

Awarded 1961-62 to:

Benjamin A. Cero Junior
 Stephen Paul Burger Sophomore
 Hilma L. Forsberg Sophomore

THE PITCAIRN-CRABBE FOUNDATION of Pittsburgh, Pennsylvania, has made available a scholarship of \$600, to be awarded annually by the President of the College on the basis of need and promise, to students who are the sons or daughters of clergymen, teachers, public servants, or other persons who are engaged in serving the public welfare.

Awarded 1961-62 to:

Peter J. Sandmann Senior

THE GENERAL MOTORS CORPORATION has made available one four-year scholarship for a student in each entering class. The value of these scholarships depends on the need of the students selected, not to exceed \$2,000 per year. Scholarships will be awarded on a competitive basis and application for them should be made to the Dean of Admission.

1960-62: Kenneth R. Bowling
 1959-63: Ann H. Conser

1960-64: John B. Taylor
 1961-65: Charles A. Shukis

Endowed Scholarships

THE BALDWIN MEMORIAL CHURCH SCHOLARSHIP FUND of \$1,000, established in 1917.

THE BEAVER MEMORIAL METHODIST CHURCH, LEWISBURG, Pa., scholarship of \$50, established in 1942.

THE M. GRACE BECHTEL MEMORIAL, the interest on a \$1,000 endowment to be paid annually to that student of the College who is preparing for entrance into the Christian ministry of the Central Pennsylvania Conference of The Methodist Church.

THE BODINE SCHOLARSHIP of \$50, established in 1907 by the \$1,000 gift of George I. Bodine, Jr., Esq.

THE GEORGE L. BROWN FUND, established under the will of the late George L. Brown, M.D., of Lucknow, Pa., amounting to \$22,500, provides that the income be applied to the tuition in order of preference, first, of male students from Middle Paxton Township, Dauphin County, Pa.; secondly, of male students from Susquehanna Township, Dauphin County, Pa.; and lastly, of other worthy and eligible boys.

CENTRAL PENNSYLVANIA METHODIST CONFERENCE SCHOLARSHIP FUND, the income to be used as scholarships for members of churches of the Central Pennsylvania Methodist Conference.

THE CLASS OF 1909 SCHOLARSHIP FUND, the interest on an accumulating fund which was presented to the College on the thirty-fifth reunion of the class, and, on

June 30, 1946, amounted to \$2,300, available in the form of scholarship-loan aid to students by appointment of the President of the College, preference to be given to any descendant of a member of the Class of 1909.

THE CLASS OF 1910 MEMORIAL FUND, established by the Class of 1910 on June 30, 1960, the sum of \$5,200. The income from this fund is to be used for such college purposes as the President of the College shall consider to be of the greatest need, with preference first to the Library and then to scholarship grants.

THE CLASS OF 1914 SCHOLARSHIP, the interest on an accumulating fund which was presented to the College on the twenty-fifth reunion of the class, and on June 30, 1950, amounted to \$4,100, available in the form of scholarship aid to students, by appointment of the President of the College.

THE CLASS OF 1915 SCHOLARSHIP, the interest on a fund presented to the College on the thirtieth reunion of the class on June 3, 1945, amounting to \$5,400 available in the form of scholarship aid to students by appointment of the President of the College, preference to be given to any descendant of a member of the Class of 1915.

THE CLASS OF 1917 SCHOLARSHIP, the interest on a fund presented to the College on the thirtieth reunion of the class on June 7, 1947, amounting to \$3,000, to be awarded annually by the President of the College, preference to be given to any descendant of the Class of 1917.

THE CLASS OF 1918 SCHOLARSHIP, the interest on a fund presented to the College on the thirtieth reunion of the class on June 5, 1948, amounting to \$2,068, to be awarded annually by the President of the College, preference to be given to any descendant of the Class of 1918, and when unassigned, to be used for the operating costs of the College.

THE CLASS OF 1921 SCHOLARSHIP, the interest on a fund presented to the College on the twenty-fifth reunion of the class on June 8, 1946, amounting to \$2,350, to be awarded by the President of the College, preference to be given to any descendant of the Class of 1921.

THE CLASS OF 1922 MEMORIAL FUND, the interest on a fund presented to the College on the twenty-fifth reunion of the class on June 7, 1947, amounting to \$1,208, the income to be used for such college purposes as the President of the College shall consider to be the greatest need with preference first to the Library and then to scholarship grants.

THE CLASS OF 1928 SCHOLARSHIP, the interest on a fund presented to the College on the twenty-fifth reunion of the class in June, 1953, amounting to \$3,832, to be awarded annually by the President of the College, preference to be given to any needy descendant of the Class of 1928, and when unassigned to be used for such college purposes as the President of the College shall consider to be the greatest need.

THE CLASS OF 1930 SCHOLARSHIP, the interest on a fund presented to the College on the twenty-fifth reunion of the class in June 1955, amounting to \$4,280, to be awarded annually by the President of the College, preference to be given to any needy descendant of the Class of 1930.

THE JOSEPH AND MARY STRONG CLEMENS SCHOLARSHIP FUND of \$2,500 was established in 1934 by Joseph Clemens, Class of 1894, the income therefrom to be used as scholarship or scholarship-loan aid for the benefit of students of the College who are students for the ministry of The Methodist Church to be selected by the President of the College as needy and worthy.

CARRIE A. W. COBB SCHOLARSHIP FUND of \$5,000, in memory of the Reverend Charles H. Rorer, D.D., because of his abiding interest in the College, his Alma Mater, the income of which is to be awarded by the College to aid students preparing for the ministry.

THE ELEANOR COOPER SCHOLARSHIP FUND of \$5,000, established in 1952. The Dickinson Club of New York may from time to time nominate recipients of such scholarship.

THE CORSON SCHOLARSHIP FUND of \$5,580, in honor of Bishop Fred P. Corson and Frances B. Corson, established by the Wyoming Conference of The Methodist Church. The amount of each scholarship to be limited to \$500 annually from this fund. Every candidate shall be a member of one of the churches of the Wyoming Conference.

THE MR. AND MRS. ROBERT B. DAVIES SCHOLARSHIP FUND of \$14,500, established in January, 1962, the income to be used toward the payment of the tuition of any students from Schuylkill County, Pennsylvania, of the Methodist faith, who are attending Dickinson College.

THE NATHAN DODSON CORTRIGHT MEMORIAL SCHOLARSHIP FUND of \$5,000 established by Mrs. Emma L. Keen, of Philadelphia, as a memorial to her father, Nathan Dodson Cortright, is used to aid young men preparing for the ministry.

S. ADELBERT DeLUDE SCHOLARSHIP of \$250, established in 1956 by a \$5,600 grant from his estate. In awarding this scholarship preference is given to a student from the New York area.

THE LUCY HOLT DONEY MEMORIAL SCHOLARSHIP FUND of \$1,000, established in 1959 by Jean, Hugh, and John Doney, the income to be used for a worthy and needy student.

THE SMITH ELY SCHOLARSHIP, endowed in 1910 by the Honorable Smith Ely, of New York City, in the sum of \$1,100, students from New York City and vicinity having prior claim.

THE WILLIAM SCHUYLER EVES MEMORIAL SCHOLARSHIP FUND of \$10,000 established in 1956, the annual income to be used for the education of needy and worthy young men who are members of the Jenkintown Methodist Church, Jenkintown, Pa., the young men to be selected by the President of Dickinson College and the Minister of the Jenkintown Methodist Church.

THE FARMERS TRUST COMPANY SCHOLARSHIP FUND of \$3,000, established in 1961 by the gift of the Farmers Trust Company, Carlisle, Pennsylvania. The income of the Fund available in the form of Scholarship Aid, by appointment of the President of the College, preference to be given to the son or daughter of an employee of the bank.

THE ROBERT M. FERGUSON, JR., MEMORIAL SCHOLARSHIP FUND of \$2,000, the gift of Grace C. Vale, of the Class of 1900.

THE FREEMAN SCHOLARSHIP of \$50, established by the \$1,000 gift of Frank A. Freeman, Esq., of Philadelphia.

THE MELVILLE GAMBRILL MEMORIAL FUND of \$50,000, the gift of Melville Gambrill, of Wilmington, Delaware, a former trustee of the College, the income from which is used to provide education for young men preparing for the ministry.

THE JOHN GILLESPIE MEMORIAL SCHOLARSHIP, interest on \$1,000, the gift in 1911 of Miss Kate S. Gillespie, daughter of John Gillespie, Esq., of Philadelphia, as a memorial to her father.

THE EDNA GRACE GOODYEAR MEMORIAL FUND of \$5,000, established by the late Samuel M. Goodyear, for many years a trustee of the College, the income therefrom to be awarded annually by the President of the College to a needy and worthy student, first, of students from Carlisle, Pennsylvania; secondly, of students from Cumberland County; and lastly, of other worthy and eligible students.

THE JOHN H. HACKENBERG SCHOLARSHIP was endowed in 1940 by the gift of \$2,000 by the Reverend John H. Hackenberg, D.D. and his wife, the interest to go annually to help some worthy young man preparing for the Methodist ministry.

THE HAVERSTICK AND SNAVELY SCHOLARSHIP, income from an annuity fund of \$1,000 set up in 1910 and designated for endowment of a scholarship.

THE J. FRED HEISSE SCHOLARSHIP FUND of \$2,500 was established in 1925 by his brother, E. W. Heisse, of Baltimore. The proceeds of the fund are awarded from year to year to such student or students as may be named by the donor, or on his failure to nominate, by the President of the College.

THE HONORABLE E. FOSTER HELLER SCHOLARSHIP FUND of \$5,000, established by Anna C. Halsey, the income to be given each year, at the discretion of the President of the College, to such boy or boys of scholastic attainment and of good character who need help for the successful continuance of their course in College.

THE HORN SCHOLARSHIP, income from \$1,000, contributed in 1917 by J. Edward Horn, of Philipsburg, Pa., to be awarded to some worthy student of the College preparing for useful service.

THE BRUCE HUGHES SCHOLARSHIP, established in 1917, the income from \$950.

THE WILLIAM ALBERT HUTCHISON SCHOLARSHIPS, the income from a fund of \$3,000, presented to the College by the Conway Hall Alumni Association on June 7, 1947, in memory of Dr. William A. Hutchison, Headmaster of Conway Hall Preparatory School, to be awarded by the President of the College, preference to be given to descendants of former students of Conway Hall.

THE CHARLES H. B. KENNEDY MEMORIAL SCHOLARSHIP FUND, the income from \$1,000, given by members of the "D" Club in memory of Professor Charles H. B. Kennedy.

THE MERKEL LANDIS SCHOLARSHIP FUND of \$7,000, established in 1958. The income to be awarded annually by the President of the College to a needy and worthy student, first, of students from Carlisle, Pennsylvania; secondly, of students from Cumberland County; and lastly, of other worthy and eligible students.

THE ALBANUS CHARLES LOGAN MEMORIAL SCHOLARSHIP FUND of \$7,416, the gift of Maria Dickinson Logan, of Philadelphia, the income to be used as a scholarship at the College for some worthy young man, preference being given to a graduate of the Germantown High School.

THE HENRY LOGAN SCHOLARSHIP FUND of \$10,100 the gift of Henry Logan, of the Class of 1910, of Brooklyn, N. Y., the income therefrom to be awarded annually by the President of the College to a needy and worthy student upon the recommendation of the donor during his lifetime.

THE RICHARD H. McANDREWS SCHOLARSHIP, the income from a fund of \$1,100 presented to the College on June 7, 1947, by the Wearers of the "D" to create a memorial to Associate Professor Emeritus R. H. McAndrews of the Department of Physical Education, to be awarded annually by the President of the College.

THE CHARLES WATSON McKEEHAN SCHOLARSHIP FUND of \$8,425.11, established under the wills of Mary A. McKeehan and Charles L. McKeehan in memory of their husband and father, Charles Watson McKeehan, of the Class of 1867, a trustee of the College 1879-95.

C. H. MASLAND & SONS SCHOLARSHIPS, established in 1945 by the \$20,000 gift of C. H. Masland & Sons, manufacturers, of Carlisle, Pa., awarded annually with preference given to children of employees of C. H. Masland & Sons, then to residents of Carlisle or adjacent territory, and lastly to any other needy and worthy student.

THE BESSIE McCULLOUGH MEMORIAL SCHOLARSHIP FUND, CLASS OF 1911, of \$12,000, established in 1959, the income to be used for worthy and needy students.

THE ARTHUR MILBY SCHOLARSHIP of \$50, established in 1911 by the \$1,000 gift of Miss Mary R. Burton, for the education of worthy young men for the ministry.

THE THEODORE F. MILLER SCHOLARSHIP of \$50, the income from the \$1,000 gift of Theodore F. Miller, Esq., of Philadelphia in 1928.

THE ROY W. MOHLER SCHOLARSHIP FUND of \$4,500, established on his fortieth reunion at Dickinson College by some of his former students at Jefferson Medical School and others. The income to be given in the second semester of his Senior year at Dickinson College to that student who has been accepted for admission to medical school for the following September and who has the greatest financial need, as determined by the President, Treasurer, and Premedical Adviser of Dickinson College.

THOMAS MONTGOMERY SCHOLARSHIP FUND of \$6,030, the gift of Colonel Robert H. Montgomery, LL.D., in memory of his father, Thomas Montgomery, a member of the Class of 1851.

THE MARLIN E. OLMSTED SCHOLARSHIPS, established in 1925 by Mrs. Marlin E. Olmsted (Mrs. Vance C. McCormick) in memory of her husband, Marlin E. Olmsted, an honorary alumnus of the College. The scholarships, the proceeds of a capital fund of \$5,000, shall be given each year at the discretion of the President of the College, to such students of good mind, good character, and studious habits as seem to need them for the successful continuance of their course in College.

THE WILMER WESLEY SALMON SCHOLARSHIP FUND of \$164,932.92 established in 1961 under the will of Cora Belle Salmon in memory of her husband, Wilmer

Wesley Salmon, of the Class of 1886 and a trustee of the College 1913-31, the income therefrom to be awarded annually by the President of the College to needy and worthy male students to enable them to complete their education at Dickinson College.

THE VALERIE SCHALL SCHOLARSHIP of \$75, proceeds of a \$1,500 fund, is used in assisting such young men as, in the estimation of the President and Faculty of the College, are of good character, scholarly habits, and deserving of assistance, and who are approved candidates for the Methodist ministry.

THE CHARLES T. SCHOEN SCHOLARSHIPS, ten in number, of \$50 each, established by the \$10,000 gift of the late Charles T. Schoen, of Philadelphia, are awarded annually to such young men and women as the President may designate.

THE ARNOLD BISHOP AND MARY AGNES SHAW SCHOLARSHIP, the annual income from \$1,250, the contribution of their children, Miss Clara W. Shaw, Mrs. Bertha Shaw Nevling, Mrs. Jeanne Shaw Bailey, Calvin Bishop Shaw, Charles M. Shaw. The donors may designate annually some worthy young person in the College in need of financial help.

JAMES ROSS SNOWDEN SCHOLARSHIP FUND, created in the will of Mary T. Snowden Stansfield, of Philadelphia, Pa., by the bequest of \$10,000 for the endowment of a law scholarship in memory of her father, the son of the Reverend Nathaniel Randolph Snowden, a trustee of the College from 1794 to 1827.

THE WILLIAM M. STAUFFER SCHOLARSHIP FOUNDATION, the bequest of \$950 of W. M. Stauffer, of Reading, Pa., in 1917, "to be invested as a special scholarship endowment, the income to be used for the benefit of some deserving student."

THE CAPTAIN JOHN ZUG STEESE SCHOLARSHIP, the interest on a \$1,000 endowment, the gift of his mother, Mrs. Anna Zug Schaeffer Steese, of Mt. Holly Springs, Pa., who has sent four sons to Dickinson, all of whom later served their country with distinction as commissioned officers of the army during World War I; to be awarded annually by the President of the College to some young man who has completed his Sophomore year in the upper third of his class, excelling especially in mathematics; who has engaged successfully in athletics, music, dramatics, or other extra-curricular activities, and to whom financial aid would be real assistance in helping him to continue his college course.

THE MOSES VAN CAMPEN CHAPTER D. A. R. SCHOLARSHIP FUND of \$10,000, the gift of Miss Elizabeth A. Low, of the Class of 1891, of Bloomsburg; the income to be awarded annually by the President of the College to a needy and worthy student, preference to be given to students from Columbia County.

THE ALBERT AND NAOMI WATSON SCHOLARSHIP FUND of \$4,000, the gift of Mr. and Mrs. Albert Watson, of Carlisle, Pa., the income therefrom to be awarded annually by the President of the College to a needy and worthy student, preference to be given to a resident of Carlisle.

THE M. WILLIAM WEDELL SCHOLARSHIP FUND of \$15,000, established in 1948 through a gift of Meta Hofer, of Brooklyn, N. Y., in memory of her brother, M. William Wedell. The income therefrom is assigned annually in the form of a scholarship or several scholarships by the President of the College and when unassigned is used for the operating needs of the College.

M. HELEN LEHMAN WHITMOYER MEMORIAL FUND of \$1,000, the gift of Raymond B. Whitmoyer of the Class of 1913 in memory of his deceased wife, M. Helen Lehman Whitmoyer, of the Class of 1911.

THE ELLA STICKNEY WILLEY SCHOLARSHIP of \$50, established by the \$1,000 gift of Mrs. Ella Stickney Willey, of Pittsburgh, Pa., is awarded annually to such students as may be designated by the donor or by the President.

THE ANNIE WINDOLPH SCHOLARSHIP FUND of \$10,392, established by the bequest of Annie Windolph, the income of which is available to a student or students taking preidental work.

THE REVEREND WILLIAM WOOD SCHOLARSHIP of \$100, the income from the \$2,000 gift of Miss Sarah Wood, of Trenton, N. J., is awarded annually to such student as may be designated by the donor or by the President.

JOHN L. YARD SCHOLARSHIP FUND received in 1945 by a bequest totalling \$4,172.94 to establish three memorial scholarships in memory of testator's wife, Emmeline Matilda Van Rensselaer Yard, to be given each year at the discretion of the President of the College to students of good mind, good character, and studious habits, preference to be given to students desiring to enter the ministry who seem to need financial aid for the successful continuance of their courses in college.

THE CHARLES K. ZUG MEMORIAL FUND, a fund of \$5,366 given in January 1930, by the late Lemuel Towers Appold, Esq., Class of 1882, of Baltimore, in memory of his intimate friend, Charles K. Zug, of Philadelphia, Class of 1880, Phi Beta Kappa, a member of the Alumni Council, and for many years a faithful friend and trustee of the College. The income from this fund to be used at the discretion of the President in granting scholarship aid to worthy young men students.

Unendowed

THE MARY DICKINSON CLUB SCHOLARSHIP of \$500 a year, established in 1960, to be awarded by the President of the College upon nomination of the President of the Mary Dickinson Club to a needy and worthy freshman girl of high academic standing, which may be renewed for the Sophomore, Junior, and Senior years providing that she needs the award to continue in College, maintains satisfactory scholastic standing, and is cooperative in following the rules and aims of the College.

THE AMANDA H. BAKER SCHOLARSHIP, the gift of John S. Snyder and his Company, in memory of the mother of Marion Ellen Baker, of the Class of 1931, the amount of \$250 awarded annually to a student from the White Plains High School, White Plains, New York, or Scarsdale High School, Scarsdale, New York, who is able to demonstrate the need for financial assistance.

Loan Funds

In addition to student loans from funds listed below, student loans are available under the terms of Title II of the National Defense Education Act of 1958 (Public Law 85-864).

THE CORNELIA C. THUMM FUND, \$950, the legacy of Mrs. Cornelia C. Thumm, of Philadelphia, 1896, the annual interest on which is to be used for the benefit of

some needy student or students of the College, the conditions of appointment and the selection of beneficiaries to rest with the President.

THE EMILY MAY PHELPS ATWOOD LOAN FUND, of \$6,051.50, established in 1942 by her parents, Mr. and Mrs. Andrew H. Phelps, to aid worthy students.

THE CLARA RIEGEL STINE FUND of \$4,457.26, the legacy of Clara Riegel Stine, of Mechanicsburg, Pa., held in trust by the Pennsylvania Company for Insurances on Lives and Granting Annuities of Philadelphia, to be used under a loan plan to assist in education of needy and worthy students studying for the ministry of The Methodist Church.

MARIA ELIZABETH VALE STUDENTS' SELF-HELP FUND, the income from a fund of \$25,000, the gift of Ruby R. Vale, Esq., of the Class of 1896, in memory of his daughter, now deceased, and because of his affection for his Alma Mater, and his desire to aid worthy students at the College needing temporary help. Administered by the President with permission to lend \$250 per year to an individual, but not to exceed \$1,000 to anyone during the college course.

AMERICAN BANKERS ASSOCIATION FOUNDATION FOR EDUCATION IN ECONOMICS LOAN SCHOLARSHIP. One loan scholarship of \$250 per year. Consult the Treasurer of the College.

BOARD OF EDUCATION OF THE METHODIST CHURCH STUDENT LOAN FUND. Open to members of that Church of at least one year's standing, \$250 in the Freshman year, \$300 in the Sophomore year, \$350 in the Junior year, and \$400 in the Senior year. The total borrowings must not exceed \$2,000. Consult the Treasurer of the College.

CENTRAL PENNSYLVANIA CONFERENCE LOAN FUND. Consult the Treasurer of the College. The maximum per year for a student is \$200, and the total amount loaned to any one person is limited to \$800 during the college course. Five cash scholarships per year of \$100 each are also available from this fund.

LOAN FUND OF THE HARRISBURG ALUMNAE CLUB. The sum of \$50 given in May, 1932, as the beginning of a revolving fund, to be applied to the aid of deserving students who are in need of assistance in meeting their college expenses.

THE PRESIDENT'S LOAN FUND. A fund for temporary small loans in cases of emergency. The principal of the fund, contributed by the alumni, is used as directed by the President of the College.

Student Employment

Opportunities are available for a number of students to meet part of their expenses by regular work in certain of the college offices and facilities. The award of a scholarship, grant-in-aid, or loan does not preclude the student's receiving part-time employment through the College. Applications for such positions may be made to the Treasurer, who will certify the request in accordance with the student's need and abilities and the positions available.

Students of the College may be eligible for other loan funds which are not administered by the College. Information concerning such funds may be obtained from the College Treasurer.

Degrees Conferred by the College

COMMENCEMENT, June 4, 1961

I. Honoris Causa

JOHN WESLEY MCKELVEY	.....	<i>Doctor of Divinity</i>
RICHARD H. ELLIS	.....	<i>Doctor of Science</i>
WILEY T. BUCHANAN, JR.	.....	<i>Doctor of Humane Letters</i>
CHARLES KLEIN	.....	<i>Doctor of Humane Letters</i>
WILLIAM VERNON MIDDLETON	.....	<i>Doctor of Laws</i>

II. In Cursu

A.B.—BACHELOR OF ARTS

Aaron, Antonie	.....	English	.....	Highland Park, N. J.
*Abendong, Zacharia Akonung	.....	History	.....	British Cameroons
Andrews, Peter Reigle	.....	English	.....	Bethlehem
Annis, Malcolm Paul	.....	Geology	.....	Arlington, Va.
Arters, Gerald Engle	.....	Political Science	.....	Lima
Baily, Mary Frances	.....	History	.....	Kennett Square
Baldauff, Michael Chapman	.....	Political Science	.....	Butler
Barber, Kenneth John, Jr.	.....	Psychology	.....	Huntingdon Valley
Bentzel, Harold R.	.....	Political Science	.....	Dillsburg
Bertholon, Bruce A.	.....	English	.....	Glen Ridge, N. J.
Bingaman, Lynda Roberta	.....	English	.....	Wyomissing
Bloom, James J.	.....	English	.....	Margate City, N. J.
Bolter, Andreas H.	.....	English	.....	Camp Hill
Briner, Ruth Anne	.....	English	.....	Carlisle
Brown, Alan Scott	.....	History	.....	Harrisburg
*Brown, Charles Roth	.....	Economics	.....	Dunellen, N. J.
Brown, Geoffrey Norton	.....	Political Science	.....	Greenwich, Conn.
*Buchanan, Sherman Walton	.....	Psychology	.....	Mapleton Depot
Buffington, Catherine Melville	.....	English	.....	Baltimore, Md.
Butler, W. Ross	.....	Economics	.....	Metuchen, N. J.
Caesar, Bernard William	.....	Economics	.....	Rye, N. Y.
Cairns, Dorothy Alice	.....	Political Science	.....	Newfoundland, N. J.
Carton, Robert Vincent	.....	History	.....	Interlaken, N. J.
Chambers, Elizabeth Gailey	.....	Economics	.....	Media
Christman, Sally Ann	.....	English	.....	Doylestown
Claeren, Wayne Henry	.....	History	.....	Pittsburgh
*Clair, Joseph Rockhill, III	.....	Political Science	.....	Philadelphia
Cohen, Harold Jay	.....	Political Science	.....	Harrisburg
*Comly, John, Jr.	.....	Economics	.....	Philadelphia
Cressman, Walter Howard	.....	Economics	.....	Bethlehem
Cromer, Raymond E.	.....	Political Science	.....	Hanover
Danner, Harry Bollinger, 2nd	.....	Political Science	.....	Richboro
Davis, James Edwin	.....	Political Science	.....	Silver Spring, Md.
Derr, Joanne Frances	.....	Psychology	.....	Frederick, Md.

* Graduated as of Class of 1960.

** Graduated as of February 6, 1961.

DesMarais, Stanley Fredericks	English	Kennett Square
Dinger, Timothy Sam	Political Science	DuBois
Dowd, Margaret Agnes	French	Riverdale, N. Y.
Doyle, Joseph C.	Political Science	Butler
*Faett, Ronald Seidel	Economics	Pittsburgh
Falone, Dianne Elizabeth	English	Camden, N. J.
Featherer, Esther Jane	Political Science	Carney's Point, N. J.
**Ferree, David Clyde, Jr.	Political Science	Mt. Holly Springs
Fischer, Mary Lynne	Biology	Lancaster
Fleishman, Alan Michael	Political Science	Berwick
Fluke, Allan Lyons	Political Science	Oakmont
Forsyth, George Alfred	Psychology	Avon-by-the-Sea, N. J.
*Frey, Carol Christiansen	English	Valley Stream, N. Y.
**Froehlich, Charles O., Jr.	Sociology	Harrisburg
Gallagher, Harold Reginald	History	Hershey
Gibbs, Susan Littlewood	History	Woodbridge, Conn.
Goas, Thomas Barry	English	Livingston, N. J.
Gottesmann, Rosemary	English	New York, N. Y.
Gottshall, Frederick S.	History	Ardmore
Grimm, Lucy Emily	French	Carlisle
Hanan, Sandra Mae	Psychology	Binghamton, N. Y.
Haug, James Reid	Economics	Bradford
Hays, Nancy Jean	English	Ambler
Heppenstall, John A.	Religion	Pittsburgh
Herb, Richard Nelson	Economics	Ardmore
Hess, W. Lawrence	Economics	Lebanon
Hitchens, Carol Lee	Mathematics	Wilmington, Del.
Holt, June Elinor	Political Science	King of Prussia
Holt, Robert Glenn, Jr.	History	DuBois
Howell, Alfred John	History	Honesdale
Hunsicker, Nina Stevens	History	Cragmoor, N. Y.
Hutchison, Judith Ann	History	Vineland, N. J.
Jann, Arthur Richard	Economics	Clark, N. J.
Jenkins, Arthur Lester, Jr.	English	Scranton
Jenkins, Charles Snedeker	Political Science	Manhasset, N. Y.
Johnson, Douglas Eugene	Political Science	Rumson, N. J.
Johnson, Linda Marie	Political Science	Garden City, Mich.
Kang, Boracheat	Economics	Phnom Penh, Cambodia
Keat, Elizabeth Anne	French	Chatham, N. J.
Keller, Adam	Economics	Carlisle
*Keller, David Winslow	History	Harrisburg
Kelly, Patricia Margaret	English	Bay Shore, N. Y.
Keuch, Barbara Ann	English	Hazleton
Kiser, Jane Carol	History	Upper Darby
*Kryston, Victor Joseph	English	Chester, N. J.
Kuykendall, Gretchen Anne	Mathematics	Washington, D. C.
Lawn, Marjorie Norma	Mathematics	Downingtown
Layng, W. John	Economics	Springfield, N. J.
Lehnartz, David Frederick	Economics	Briarcliff Manor, N. Y.
Lewis, Loran Lance	History	Pittsburgh
Lindberg, Stanley William	English	Warren

* Graduated as of Class of 1960.

** Graduated as of February 6, 1961.

Lohmann, Watson Malone	Geology	Carlisle
**Ly, Luoeng	Political Science	Phnom Penh, Cambodia
McCabe, Kendall Kane	English	Berlin, Md.
McCormick, Paul Reed	Economics	Troy
McCormick, William James	Political Science	Pittsburgh
Macauley, Joanne Wolfe	Biology	Wayne
Martin, Sandra Lou	Sociology	Pittsburgh
Massey, Gail	English	Washington, D. C.
Matta, Elizabeth Ann	History	Brownsville
May, C. Kent	Political Science	Glenshaw
Mecum, Lois Anne	English	Lancaster
Metzger, William Franklin	Psychology	Baltimore, Md.
Miller, Barbara Snow	History	Glastonbury, Conn.
Miller, Virginia Louise	English	Tyrone
Morrissey, John Michael	English	West Lawn
Morton, Albert W., 3rd	Economics	Philadelphia
Mulligan, Edward Joseph, Jr.	Economics	Bryn Mawr
Nesbitt, Lynne	Political Science	Beirut, Lebanon
Ness, Lynne Meredith Denney	Sociology	Brooklyn, N. Y.
Neuber, Jane Ann	English	Lancaster
Newell, Nancy Jane	English	Fanwood, N. J.
*Norris, John Warren	History	Curwinsville
Ober, William Jay	Economics	Derry
Paley, I. David	English	Cooksville
*Paul, Charles Marshall	Economics	Philadelphia
Piel, William Louis	History	Baltimore, Md.
Platt, William Henry	Economics	Emmaus
Quann, Byron Gene	English	Harrisburg
Quirk, John J., Jr.	English	North Plainfield, N. J.
Reamy, Barbara Ann	English	Baltimore, Md.
Richmond, Judith Baker	Psychology	Cutchogue, L. I., N. Y.
Riethmiller, Lynn Gray	English	Pittsburgh
**Robbins, Jon Walker	Economics	Mechanicsburg
Ruth, Jon Kent	Geology	Weybridge, Surrey, England
Rybnik, John Michael	English	Scranton
Sackman, Alan	Political Science	Warwick
Semler, David Arthur	Political Science	Hagerstown, Md.
Seybrecht, Carla J.	Mathematics	Ashland
Shields, Sandra Evelyn	English	Butler
Sidle, Allan Charles	Psychology	Baltimore, Md.
Skladany, Jan Paul	Psychology	Pittsburgh
*Slaney, David Frederick	English	Pittsburgh
Smith, Bruce LaVerne	History	Union City
Smyth, William Newman	Psychology	Roslyn Estates, N. Y.
Spire, Joan Elizabeth	English	Hummelstown
Stevens, Virginia Jane	Psychology	Philadelphia
Stevenson, David George	Mathematics	Bound Brook, N. J.
Strohecker, James Rine	History	Harrisburg
Stuhlmuller, Kimball Ross	Economics	Braddock Heights, N. Y.
Sullivan, Milton Keith	English	Camp Hill

* Graduated as of Class of 1960.

** Graduated as of February 6, 1961.

Taub, Marvin Julius	Political Science	Binghamton, N. Y.
**Taylor, Michael Albert	History	West Orange, N. J.
Tepel, Frederick Anthony, Jr.	English	Williamsport
Thome, Barbara Jo	German	Mount Joy
**Thompson, Mary Lloyd Thomson	History	Carlisle
*Thompson, Peter Merritt	Economics	Morris Plains, N. J.
Trevlyn, Richard Louis	Psychology	Ocean City, N. J.
Tyler, William Gurdon, III	Economics	Cockeysville, Md.
*Valenti, Eleanor Taft	Mathematics	Brooklyn, N. Y.
*Van Culin, Susan Helen	English	Point Pleasant, N. J.
Vickery, Richard Alexander, Jr.	History	Hatboro
Villepique, Douglas A.	Economics	Glen Rock, N. J.
*Vittrup, Muriel Helene	Spanish	San Francisco, Calif.
Walz, Ruth Hoffman	English	Carlisle
Wear, Richard Carter	English	Carlisle
Wickersham, Barry Roland	History	West Chester
Wildermuth, Lamar Allan	English	St. Clair
Wilkinson, Bruce Frederick	History	Coral Gables, Fla.
Wood, Jeffrey C.	English	Baldwin, N. Y.
Wright, Carol	Psychology	Westfield, N. J.
Wylie, Elizabeth Gordon	History	Norfolk, Va.
Yaverbaum, Joan	English	Harrisburg

SC.B.—BACHELOR OF SCIENCE

Adams, Andrea Lee	Biology	Reading
Ahlstrom, Dennis Michael	Chemistry	Youngstown, N. Y.
Bartoli, James Carl	Biology	Carlisle
Bauer, Thomas Lee	Biology	York
Chambers, Faith Elizabeth	Biology	Moorestown, N. J.
Cohen, Edwin Eli	Chemistry	Harrisburg
Cohen, Marshall H.	Chemistry	Harrisburg
Ehrlich, Gary Lee	Chemistry	Baltimore, Md.
Eisenberg, Gerald Richard	Chemistry	Baltimore, Md.
Emkey, Ronald Daniel	Biology	Berwick
Engelke, Judith Evelyn	Physics	Balboa, Canal Zone
Flory, Richard Aerts	Geology	East Stroudsburg
Gilfillan, Robert G., III	Physics	Swarthmore
*Gruver, Elmer J., Jr.	Chemistry	Shippensburg
Guckes, Albert David	Biology	Springfield
Haynes, Melissa Nye	Biology	Port Washington, N. Y.
Hermann, Michael Jerome	Mathematics	Middleburg
Humphrey, Chester Bowden	Chemistry	Chevy Chase, Md.
Hurst, John Long, III	Geology	Berwick
Jaloviczky, Steven	Mathematics	Budapest, Hungary
Kronenberg, Eves	Chemistry	Carlisle
Leabman, Daniel L.	Chemistry	Philadelphia
Lindsay, Margaret Eileen	Chemistry	Camden, N. J.
McNutt, Robert L.	Mathematics	Philadelphia
Marcucci, William Carey	Chemistry	Philadelphia

* Graduated as of Class of 1960.

** Graduated as of February 6, 1961.

Nuttle, Henry Lee Williamson	Mathematics	Denton, Md.
Oiler, Franklin Arthur	Biology	Newville
Page, Ronald Clifford	Geology	Princeton, N. J.
Pitock, Jordon Ronald	Chemistry	Philadelphia
Ramos Umpierre, Antonio	Chemistry	Santurce, Puerto Rico
Rice, Margot Douglass	Biology	Westminster, Md.
Richardson, Frederick Smith	Chemistry	Carlisle
Schechter, Lawrence Mark	Chemistry	Cheltenham
Scott, Catharine Patten	Mathematics	Clearfield
Smith, Roger Malcolm	Physics	Silver Spring, Md.
*Spector, William Irving	Chemistry	West Chester
Tar, Irene S.	Biology	Budapest, Hungary
Thieler, William Roger	Chemistry	Philadelphia
Thomas, Polly Baker	Biology	Mechanicsburg
Tickner, Alexander MacLaren, Jr.	Biology	Severna Park, Md.
Timlin, Joseph Paul	Geology	Breezewood
Unger, William Grant	Biology	Berwick
Walters, Robert	Mathematics	Robbinsville, N. J.
White, Harold N.	Biology	Newtown
Wrightstone, Ruth Naomi	Biology	Mechanicsburg
Zerby, John Gardner, Jr.	Chemistry	Camp Hill

* Graduated as of Class of 1960.

SPECIAL CONVOCATION

October 28, 1961

HONORIS CAUSA

STEPHEN A. FREEMAN	<i>Doctor of Humane Letters</i>
FRANCIS H. HORN	<i>Doctor of Laws</i>

Honors Conferred, 1961

SUMMA CUM LAUDE

Elizabeth Anne Keat	Barbara Ann Reamy
Gretchen Anne Kuykendall	Frederick Smith Richardson

MAGNA CUM LAUDE

Antonie Aaron	Henry Lee Williamson Nuttle
Ruth Anne Briner	Allan Charles Sidle
Stanley William Lindberg	Barbara Jo Thome
Lois Anne Mecum	Eleanor Taft Valenti

CUM LAUDE

Kenneth John Barber, Jr.	Melissa Nye Haynes
Alan Scott Brown	Michael Jerome Hermann
Catherine Melville Buffington	Carol Lee Hitchens
Walter Howard Cressman	Nina Stevens Hunsicker
Richard Aerts Flory	Robert L. McNutt
Lucy Emily Grimm	John Michael Rybnik
Barry Roland Wickersham	

HONORS IN SPECIAL DEPARTMENTS

Kenneth John Barber, Jr. (Psychology)
 Harold Jay Cohen (Political Science)
 Dianne Elizabeth Falone (English)
 Alan Michael Fleishman (Political Science)
 Richard Aerts Flory (Geology)
 Robert Glenn Holt, Jr. (History)
 John Long Hurst, III (Geology)
 Arthur Richard Jann (Economics)
 Gretchen Anne Kuykendall (Mathematics)
 Stanley William Lindberg (English)
 Kendall Kane McCabe (English)
 William Henry Platt (Economics)
 Margot Douglass Rice (Biology)
 Frederick Smith Richardson (Chemistry)
 John Michael Rybnik (English)
 Allan Charles Sidle (Psychology)
 Virginia Jane Stevens (Psychology)
 Eleanor Weber Taft Valenti (Mathematics)

SENIOR SOPHISTER, 1961-62

Carol E. Jones

JUNIOR SOPHISTER, 1961-62

John R. McClelland
Thomas R. Stretton, Jr.

ELECTED TO PHI BETA KAPPA

Antonie Aaron	*Henry Lee Williamson Nuttle
Ruth Anne Briner	*Barbara Ann Reamy
*Elizabeth Anne Keat	*Frederick Smith Richardson
*Gretchen Anne Kuykendall	Allan Charles Sidle
Stanley William Lindberg	Barbara Jo Thome
Lois Anne Mecum	Eleanor Weber Taft Valenti

COMMISSIONED SECOND LIEUTENANT USAR, 1961

Peter R. Andrews	Signal Corps (Army Intelligence)
James C. Bartoli	Artillery (Air Defense)
Harold R. Bentzel	Military Police Corps
Alan S. Brown	Infantry
Warren R. Butler	Quartermaster Corps
Wayne H. Claeren	Infantry
Raymond E. Cromer	Transportation Corps
†Harry B. Danner, II	Infantry
James E. Davis	Infantry
Timothy S. Dinger	Corps of Engineers
Joseph C. Doyle	Signal Corps (Army Intelligence)
Alan M. Fleishman	Armor
**Richard A. Flory	Artillery
Richard N. Herb	Quartermaster Corps
Michael J. Hermann	Armor
Stanley W. Lindberg	Infantry
†Frederick S. Richardson	Corps of Engineers
John M. Rybnik, Jr.	Artillery
David A. Semler	Artillery
Jan P. Skladany	Infantry
Bruce L. Smith	Infantry
**Kimball R. Stuhlmuller	Armor
William G. Tyler, III	Military Police Corps
Douglas A. Villepique	Transportation Corps
Robert Walters	Artillery
***George H. Younger	Infantry
**John G. Zerby, Jr.	Corps of Engineers

* Elected at end of Junior year, 1960.

† Commissioned on July 28, 1961.

** Regular Army Appointment.

*** Commissioned on July 21, 1961.

ROTC AWARDS, 1961

THE JOHN DICKINSON SABER AWARD

Kimball R. Stuhlmuller

THE ASSOCIATION OF THE U.S. ARMY AWARD

John H. Dingee, Jr.

THE SOJOURNER'S AWARD

Wilmer A. Hoffecker

OUTSTANDING ACHIEVEMENT RIBBON

Fred S. Richardson
Bruce L. Smith
John W. Talley

THE CHICAGO TRIBUNE AWARDS

Senior First Prize (Gold)	William D. Bitler
Senior Second Prize (Silver)	Bruce L. Smith
Junior First Prize (Gold)	John W. Baker
Junior Second Prize (Silver)	Stephen D. Warner

THE NATIONAL RIFLE ASSOCIATION MEDAL

Charles F. GaNun

THE SONS OF THE AMERICAN REVOLUTION MEDAL

Merritt J. Aldrich, Jr.

SUPERIOR CADET RIBBON AWARD

Senior	Richard A. Flory
Junior	Lloyd S. Williams
Sophomore	Keith J. Phillips
Freshman	William G. Reish

RESERVE OFFICERS ASSOCIATION AWARD

Stanley W. Lindberg

RESERVE OFFICERS ASSOCIATION MEDAL

Richard M. Warden

THE U.S. ARMOR ASSOCIATION AWARD

Kimball R. Stuhlmuller

MILITARY ORDER OF WORLD WARS MEDAL

Walter S. Buckley, III

Register of Students

STUDENTS FROM OUTSIDE THE UNITED STATES OF AMERICA

Dickinson College each year welcomes a number of students from outside the United States of America. Those who are on the campus for the years 1961-62 include:

Beemer, Christopher B.	Singapore, Malaya
Chun, Chu Il	Soeul, Korea
Heinze, Harald G.	Munster, Germany
MacKinnon, Diana D.	Ensenada, Puerto Rico
Mikkelsen, Nils J.	Santiago, Chile
Morris, Anthony B.	Frankfurt, Germany
Sukhabut, Seri J.	Bangkok, Thailand
Thapa, Chiranjivi S.	Kathmandu, Nepal
Wellington, C. Ann	Panama City, Panama

Register of Students

Seniors

Acton, James N., Jr.	Salem, N. J.
Adam, Sandra A.	Temple
Angeletti, A. Donald	Brooklyn, N. Y.
Annan, William G.	Ridgewood, N. J.
Armstrong, Roberta A.	Hughesville
Bahrs, Shirley M.	Highlands, N. J.
Baker, John W.	Hanover
Barr, Elizabeth J.	Claymont, Del.
Beach, Bruce C.	Northfield, N. J.
Beck, Donald R.	Maplewood, N. J.
Becker, Eugene M.	York
Berkenstock, Joan	Malvern
Bidwell, Mary J.	Simsbury, Conn.
Bitler, William D.	Bloomsburg
Bowling, Kenneth R.	Baltimore, Md.
Brown, Bonnie	Easton
Bryan, Linda J.	Wilkes-Barre
Buckley, Leland H.	Unionville, Conn.
Butcher, William J.	Philadelphia
Campbell, Kenneth L.	Short Hills, N. J.
Cardinali, Patricia L.	Fulton, N. Y.
Cavanagh, Elizabeth A.	Wilmington, Del.
Chandler, Mary A.	Washington, D. C.
Clarke, William C., III	Baltimore, Md.
Clough, John H.	Princeton, N. J.
Colville, David S.	Philadelphia
Cook, Sackett S.	Providence, R. I.
Cooper, Mary M.	Denton, Md.

Coronway, Gwendolyn	Glenolden
Couzens, Richard M.	Philadelphia
Craft, Robert S.	Mountainside, N. J.
Crane, Sara E.	Caldwell, N. J.
Crist, Henry S.	Saddle River, N. J.
Curry, Edward L.	Washington, D. C.
Davies, Donald M., Jr.	Lincoln University
Davis, Boyd C., Jr.	West Chester
Davis, Richard A.	Philadelphia
Davis, Thomas S.	Newtown Square
Denbo, Jay A.	Moorestown, N. J.
DeVol, Eugene C., Jr.	Bala Cynwyd
Dildine, Melvin M.	Waynesboro
Dillman, James S.	Glenshaw
Dingee, John H., Jr.	Rosemont
Drayton, William A.	South Orange, N. J.
Enseki, Frances L.	Seabrook, N. J.
Eten, Frank X., Jr.	Westwood, N. J.
Evangelist, Louis A.	Berwyn
Everhart, Katherine P.	Churchland, Va.
Everstine, Douglas G.	Baltimore, Md.
Fagan, John J.	Long Branch, N. J.
Fasnacht, Michael C.	Ephrata
Fatula, Margaret E.	Philadelphia
Feraco, Joseph A.	Philadelphia
Fernsler, John P.	Robesonia
Field, Marlene G.	Harrisburg
Field, Maurice B., Jr.	Newark, Del.
Fine, Jeffrey R.	Woodmere, N. Y.
Fisher, Barry L.	Bridgeton, N. J.
Foreman, Elane L.	Babylon, N. Y.
Frankhouser, Lemar R.	Elizabethtown
Fretz, Michael W.	Lock Haven
Fromer, Charles H.	Camp Hill
Frost, Virginia D.	Pelham, N. Y.
Gallit, Bruce	Colonia, N. J.
Garwood, Griffith L.	Washington, D. C.
Geiger, Frederick C., Jr.	Annapolis, Md.
Gilbert, Frederick S.	Pelham, N. Y.
Giorgio, Benjamin D.	Norristown
Goodman, Roger A.	Millville
Gordon, Pauline	Guilford, Conn.
Goas, N. Bryson	Lewistown
Gosnell, Kermit B.	Philadelphia
Graham, Elizabeth A.	Philadelphia
Grainger, Robert R., Jr.	Glenolden
Hammond, Elizabeth L.	Towson, Md.
Hand, Dorothy C.	Philadelphia
Harding, Harriet C.	Millington, N. J.
Harlowe, Robert S.	Dumont, N. J.

Harry, Jane G.	Bluffton, S. C.
Hasenritter, Ellen J.	Havertown
Heggan, Elizabeth A.	Sewell, N. J.
Hetrick, Victor J., Jr.	Hummelstown
Holston, John S., Jr.	Woodbury, N. J.
Hoopes, Marcia M.	Devon
Horsley, Richard A.	Narberth
Howell, Christopher S.	Ormond Beach, Fla.
Hyman, Charles W.	Wilkes-Barre
Ingram, William L.	Chevy Chase, Md.
Jackier, H. Kenneth	New Rochelle, N. Y.
Jacobs, Frederic	Brooklyn, N. Y.
Jenney, David	Chester Springs
Joel, Helmuth W., Jr.	Bronxville, N. Y.
Johnson, Karen L.	Washington, D. C.
Jones, Carol E.	Hopewell, N. J.
Jones, William F. W., Jr.	Philadelphia
Kalis, Howard E., III	Pottstown
Kennedy, Charles A.	Carlisle
Kepner, Margery A.	Carlisle
Kerstetter, Julia A.	Altoona
Koontz, Sara A.	Bedford
Kraft, Elizabeth G.	Dover, Mass.
Kreisberg, Steven E.	Hewlett Harbor, N. Y.
LaBate, Linda F.	Easton
Lawrence, Carol A.	Wilmington, Del.
Lee, Richard Q.	Chevy Chase, Md.
Leibowitz, Robert E.	Burlington, N. J.
Levin, Marvin I.	Reading
Lewis, Joseph E.	Wyomissing
Line, Larry L.	Carlisle
Lipinski, Joseph F., Jr.	New Kensington
Lum, H. Martin, III	Chambersburg
Lumpkin, O. Alan, Jr.	Wilmington, Del.
Lutz, Janet M.	Philadelphia
Machat, Sydney L.	Philadelphia
Malone, Robert A.	Rockville, Md.
Mann, Richard, Jr.	Douglaston, N. Y.
Meade, David C.	Bethesda, Md.
Mellott, John L.	Carlisle
Miller, Bernard J.	Philadelphia
Miller, Neal	Bayonne, N. J.
Mitchell, Penelope L.	Las Vegas, Nevada
Moore, Louis De B.	Locust Valley, N. Y.
Morrissey, J. David	Carlisle
Morrissey, Kay Stockbridge	Carlisle
Morse, Phyllis A.	Closter, N. J.
Morsell, Frederick A.	Brooklyn, N. Y.
Moser, Klara E.	Norwood, N. J.
Muncaster, John W.	Pittsburgh

Nora, Mary Lou	New Brunswick, N. J.
O'Connor, Margaret M.	Scarsdale, N. Y.
Owens, William E.	Baltimore, Md.
Pappas, Dean C.	Bridgeton, N. J.
Patterson, James W.	Swarthmore
Paull, Robert C.	Riverdale, N. J.
Pera, Rod J.	Hershey
Petersen, J. David	Flushing, N. Y.
Radcliffe, John H.	Fairhaven, Mass.
Ranochak, Ronald J.	Carlisle
Rennie, George S., III	Chester
Richardson, Edith B.	Glen Ridge, N. J.
Ricks, John D.	Uniontown
Rilling, David C.	Philadelphia
Rimbach, David W.	Pasadena, Md.
Risser, Mary A.	Elizabethtown
Rogers, Marianne T.	Carlisle
Rood, Audrey A.	South Bound Brook, N. J.
Rosen, Stuart	Williston Place, N. Y.
Rosenstein, Walter S.	Forest Hills, N. Y.
Rossell, Nancy G.	Morrisville
Royce, Knut S.	Carlisle
Rudolph, Eric B.	Baltimore, Md.
Ruhl, Dorothy M.	Manheim
Salter, Edward A.	Chambersburg
Sandmann, Peter B.	Carlisle
Selheimer, Guy M.	North Hills
Sheffer, Suzanne	Watsonstown
Shive, Donald L.	Perkasie
Smedley, Philip A.	Cheltenham
Smith, Charles B.	Philadelphia
Smith, Ramona A.	Cape May Court House, N. J.
Snyder, James V.	Philadelphia
Stambaugh, John E., Jr.	Belleville
Steckley, William M.	Washington, D. C.
Steege, Gwendolyn Wilkin	Havertown
Stehley, George F., III	Havertown
Steindel, Carl R.	Moscow
Stocker, Carolyn A.	Reading
Stoner, Carl B., Jr.	Carlisle
Strite, James A., Jr.	Chambersburg
Stuart, H. Wynne	Manhasset, N. Y.
Sukhabut, Seri J.	Bangkok, Thailand
Sunden, Gary R.	Hempstead, N. Y.
Swartley, Steven W.	Souderton
Talley, John W.	Philadelphia
Thatcher, Richard S.	Glenside
Thomas, John C.	Mifflinburg

Thomas, Sheldon G.	Plymouth
Tilden, Deborah	Scituate, Mass.
Todd, Walter D.	Berwick
Townhill, James R.	Hudson, Ohio
Tull, Richard	West Orange, N. J.
Updike, Richard D.	Short Hills, N. J.
Vandegrift, Benjamin M.	New Castle, Del.
Waddell, Douglas T.	Wyomissing
Wagner, Durbin L.	Tamaqua
Wallace, Angus D.	Carlisle
Wallace, Kay W.	Pittsburgh
Wallace, Sally Jo McClain	Carlisle
Warner, Stephen D.	East Rockaway, N. Y.
Weiant, Carol J.	Peekskill, N. Y.
Weigle, William F.	Carlisle
Weitzel, William R.	Washington, D. C.
Wellington, C. Ann	Panama City, Panama
Wells, Gay D.	Verona, N. J.
White, Susan C.	Manhasset, N. Y.
White, W. James	Roxbury
Whitesell, James J.	Wallingford
Whiteside, Albert W.	Bala Cynwyd
Williams, Lloyd S.	Santa Barbara, Calif.
Wilson, Donald G.	Philadelphia
Winkler, Frank A.	Trenton, N. J.
Winzer, Carol A.	Baltimore, Md.
Wirth, Barbara A.	East Brunswick, N. J.
Wood, Alicia M. Conklin	Camp Hill
Wurster, Michael F.	Media
Wurtman, Stuart A.	Philadelphia
York, L. David, Jr.	Sea Cliff, N. Y.
Young, Martha J.	Mahwah, N. J.

Juniors

Adams, John D., Jr.	Harrisburg
Andrews, Joseph K.	Morrisville
Archbold, Judith L.	Pittsburgh
Arndt, Nancy G.	Abington
Bamberger, Tomas J.	Honey Brook
Bankert, Karl R.	Littlestown
Banks, Reed C., Jr.	Trumbull, Conn.
Bartels, M. Linnea	New Kensington
Baumert, Carol A.	Easton
Behr, Ernest H.	Wayne
Bell, Richard W.	Fairfield, Conn.
Bennett, Patricia L.	Williamsport
Berberian, Charlotte M.	Allentown

Bingaman, Jerrilyn M.	Wyomissing
Blanchard, Edward D.	Wynnewood
Bliss, Lyle W.	Wellsboro
Blondin, Sandra L.	Timonium, Md.
Bole, Jerry D.	Johnstown
Bonelle, Joyce	Lebanon
Boyer, Harriet L.	Glenside
Brauner, David A.	Woodmere, N. Y.
Buckley, Walter S., III	Media
Buechner, Barbara A.	Morris Plains, N. J.
Bullen, Joseph W., III	Lansdowne
Burstein, Richard I.	Norwalk, Conn.
Butera, John C.	Norristown
Buxton, Donald R., Jr.	Elizabethville
Cadwallader, Thomas E.	North Wales
Carty, John R.	Morrisville
Caruso, Vincent G.	Southampton, N. Y.
Cero, Benjamin A.	Danville
Chapin, David P.	Benton
Chase, Susan E.	Elmira Heights, N. Y.
Chipkin, David R.	Flushing, N. Y.
Christiansen, Samuel L. W.	Wayne
Christie, Thomas R.	Plainfield, N. J.
Ciasca, Richard N.	West Hempstead, N. Y.
Clarke, Gordon M.	Cato, N. Y.
Cleaver, David C.	Catawissa
Coates, Thomas B.	Suffield, Conn.
Collins, Michael S.	Littlestown
Conser, Ann H.	Williamsport
Cooper, Keith B.	Huntingdon Valley
Cordes, Wayne N.	Ivyland
Costenbader, J. Markle	Virginia Beach, Va.
Courtland, Stephen M.	Washington, D. C.
Craver, Roger M.	Gettysburg
Crea, Joseph K.	Coraopolis
Creps, Lester A.	Beaver
Crouse, Peter O.	West Chester
Curtis, William E.	Fair Haven, N. J.
Daugherty, Charles D.	Red Lion
Delp, Steven P.	Montoursville
DeMonte, Jo-Anne L.	West Hartford, Conn.
DeTuerk, Ann M.	Penn Valley
Diener, Joanne	Harrisburg
DiOrio, Reno F.	Burgettstown
Dockstader, Donald T.	Kennett Square
Donohue, Robert T.	Collingswood, N. J.
Douglas, John W., Jr.	Brookfield Center, Conn.
Drennon, David G.	Springfield
Dunsford, Harold A.	Old Greenwich, Conn.
Durbin, M. Carol	Kingston
Duvall, Barbara C.	Gaithersburg, Md.
Efraemson, David R.	Philadelphia

Elfman, Allan M.	Philadelphia
Ellis, Christine V.	Yardley
Engelking, Virginia R.	Broomall
Englert, Justine D.	Pittsburgh
Eskin, David J.	Cheltenham
Evans, Marbeth L.	Plymouth
Everett, Judith A.	Vicksburg, Miss.
Ewing, J. Nash	New Cumberland
Eyster, James J., Jr.	Narberth
Farley, Radcliffe W.	Worcester
Field, Allen D.	Sayre
Figdor, Peter J.	Philadelphia
Fillman, John P.	Philadelphia
First, Mary P.	Harrisburg
Fisher, Louis E.	Granville
Foreman, James W.	Carlisle
Fox, Blaine W.	Lansdowne
Fronk, Gordon D.	Natick, Mass.
Gardner, Gail A.	Dalton
Geyer, Barbara R.	Wynnewood
Gibson, John W., Jr.	Great Neck, N. Y.
Gill, Paul F.	Staten Island, N. Y.
Goldberg, Sherwood D.	Leesport
Goodridge, Linda J.	West Chester
Gorham, Jeffrey H.	Winnetka, Ill.
Gormly, William M.	Pittsburgh
Graetz, Susan M.	Lancaster
Green, Robert A.	Bricktown, N. J.
Greenberg, Howard	Havertown
Greer, Barbara L.	Moylean
Grier, Sue A.	Oxford
Grim, Allan K., Jr.	Kutztown
Gross, Howard S.	Pittsburgh
Hancock, Terrance K.	Wilmington, Del.
Harper, John F., Jr.	Portland, Conn.
Heller, Jeanne G.	Pennsauken, N. J.
Helsberg, Joanne C.	Ridgewood, N. J.
Henderson, Robert T.	Drexel Hill
Hendricks, John C.	Pennsburg
Hensyl, William R.	Berwick
Hill, Robert B.	Pelham Manor, N. Y.
Hoffecker, W. Andrew	Springfield
Holmberg, John E.	Ardmore
Hulett, Dency A.	Collingswood, N. J.
Humphrey, John C.	Pittsburgh
Hunter, Willard W.	West Pittston
Husted, Susan D.	Wellsboro
Jacks, Thomas M.	Hummelstown
Jacoby, Susan C.	Trumbull, Conn.
James, J. Wesley	Carlisle

John, Jerome F.	Drexel Hill
Johnson, Ann C.	West Orange, N. J.
Jordon, James F.	Coraopolis
Kaufmann, M. Richard, Jr.	Rockville Centre, N. Y.
Kegley, Monna G.	Hagerstown, Md.
Keohane, Richard B.	Harrisburg
Kepler, Thomas F.	Havertown
Kerrick, Craig W.	Wellsboro
Kirchner, Frederick K., Jr.	Delmar, N. Y.
Klein, Elliott	Philadelphia
Kline, E. Susan	West Lawn
Knox, Alice E.	Wyomissing
Knupp, Robert L.	Harrisburg
Kuhn, Kathryn L.	Rockville Centre, N. Y.
Lamb, Robert E., II	Bryn Mawr
Laws, Constance J.	Washington
LeCron, Robert H.	Bethlehem
Lee, Marion W.	Bordentown, N. J.
Lenton, H. Michael	Carlisle
Leonard, David A.	Carney's Point, N. J.
Lindstrom, Carol A.	Plainfield, N. J.
Linduff, Katheryn M.	Washington
Litvak, Paul J.	Carnegie
Logan, Thomas A.	Philadelphia
Looker, Brian B.	Camp Hill
MacKinnon, Diana D.	Ensenada, Puerto Rico
McClelland, John F.	Washington, D. C.
McClelland, John R.	Haddon Heights, N. J.
McConnell, Grace W.	Trumansburg, N. Y.
McGee, John C.	Northport, N. Y.
Mann, Hunter, III	Harrisburg
Markley, Charles A.	Camp Hill
Martin, Kathleen L.	Basking Ridge, N. J.
Mazza, John P.	Butler
Mazzie, Louis R., Jr.	Middletown, N. J.
Meals, George C.	Camp Hill
Mengel, R. William	West Lawn
Merrick, Charles P., III	Denton, Md.
Merritt, Robert S., Jr.	Rahway, N. J.
Meyers, Robert H.	Wyomissing
Miller, Albert G.	West Chester
Miller, Janet P.	Glenside
Monachino, Jeffrey A.	Pelham, N. Y.
Moneta, Judith A.	Villanova
Moore, Rosalie A.	Jersey Mills
Moorhouse, Marian W.	Fort Lauderdale, Fla.
Morgan, William A.	Kingston
Morris, Judith A.	Lansdowne
Munson, Jeanette R.	Stroudsburg
Murphy, Susan H.	Jenkintown

Newby, Joseph H.	Merion
Northam, Judith A.	Glenside
Ochse, D. Roger	Oxford, N. J.
Oppasser, Jack E.	Westfield, N. J.
Ornstein, Beth L.	Highland Park, N. J.
Ostien, Paul H., Jr.	Ridley Park
Packard, Harry B.	Washington, D. C.
Parker, Ronald A.	Staten Island, N. Y.
Pasquale, Henry D.	King of Prussia
Pastore, Susan H.	Pelham, N. Y.
Pawling, Penny B.	Phoenix, Md.
Peltz, Suellen	Atlantic Highlands, N. J.
Perkins, Charles M., Jr.	Bedford, N. Y.
Phillips, Keith J.	Laurel, Del.
Pinkerton, Anne E.	Berwyn
Price, Barbara E.	Springfield
Price, Howard C.	Jackson
Reade, Donald A.	Hingham, Mass.
Reeder, Richard A.	Beaver Falls
Rentschler, Donald P.	Reading
Rich, John E., Jr.	Woolrich
Rizzolo, Ronald E.	Newark, N. J.
Robb, James P.	White Plains, N. Y.
Roberts, James L.	Monongahela
Rockman, Edward F.	Sayre
Rogers, Ronald K.	West Pittston
Rosen, Howard R.	Baltimore, Md.
Rosenfeld, Philip A.	Philadelphia
Rupprecht, George W., Jr.	Towson, Md.
Sabel, Bruce E.	Philadelphia
Sadler, Beverly G.	Red Bank, N. J.
Satinsky, Harry W.	Bala Cynwyd
Schantzenbach, William K.	Emmaus
Schmidt, Susan J.	Maplewood, N. J.
Schroeder, Robert E.	Summit, N. J.
Schwenk, Gail J.	Hempstead, N. Y.
Secord, Ralph E., Jr.	Holden, Mass.
Shatto, J. Douglas	Harrisburg
Shelley, Phyllis J.	Mechanicsburg
Shoff, Millard R.	Hanover
Silver, Barry A.	Philadelphia
Smyth, Whitney B.	Roslyn Estates, N. Y.
Spatz, William E.	Carlisle
Spicer, Joan L.	Wilmington, Del.
Sprogell, Prudence M.	North Wales
Standing, John H.	Bethlehem
Steel, Richard D.	Meadowbrook
Steen, Jon M.	McKeesport
Stellwag, Theodore W.	Burlington, N. J.

Stepler, Howard R., Jr.	Waynesboro
Stohr, Joan B.	Pittsburgh
Stretton, Thomas R., Jr.	Clarks Summit
Stright, M. Suzanne	Indiana
Stunt, Barbara W.	Bellmore, N. Y.
Tafel, Harvey A.	Narberth
Taranto, Michael, Jr.	Hillside, N. J.
Taussig, Joan H.	Noroton, Conn.
Tener, Jerry L.	Sewickley
Test, Thomas C.	Wayne
Thapa, Chiranjivi S.	Kathmandu, Nepal
Thompson, Ann L.	Athens, Ga.
Tomlinson, Judith S.	Springfield
Treicis, Mara	Carlisle
Tunstall, Graydon A.	Red Bank, N. J.
Turner, Carl A.	Westmont, N. J.
Tuttle, Carolyn M.	New York, N. Y.
Ulrich, John F.	Palmyra
Van Ormer, Jean H.	Cumberland, Md.
Vedova, Edith M.	Glen Ridge, N. J.
Verdelli, Louis J.	Hummelstown
Volpicelli, Nicholas A.	Norristown
Wadas, Charles G.	Berkeley Heights, N. J.
Wagner, Charles I.	Wyncote
Wagner, Mary E.	Etters
Walter, Ezetta W.	Christiana
Walton, David J.	Erlton, N. J.
Warden, Richard M.	Harrisburg
Wasilko, Charles	Scranton
Weidner, William A.	Carlisle
Weiser, Don C.	Carlisle
Weiss, Robert	Andover, Mass.
Weller, Jean M.	Wallingford
Whitwell, George L.	West Englewood, N. J.
Wick, John B., Jr.	Woodbury, N. J.
Wicks, Allan B.	West Pittston
Widmyer, William L.	Macungie
Wilcox, W. Glenn	Silver Spring, Md.
Williams, Scott A.	Williamsport
Willson, Sydney G., III	Vandegrift
Wilson, Charles J.	Philadelphia
Wilson, David W.	Philadelphia
Witwer, Samuel W., Jr.	Kenilworth, Ill.
Wolfe, Sandra L.	Yardley
Woolston, David S.	Mount Holly, N. J.
Young, Richard M.	Plainfield, N. J.
Zilinsky, Emily F.	Great Neck, N. Y.
Zwally, A. Paul	Ephrata

Sophomores

Adams, Linda K.	Rockville, Md.
Adams, Pendery B.	Cuyahoga Falls, Ohio
Agnew, Raymond G.	Woodlyn
Aldrich, Merritt J., Jr.	Holliston, Mass.
Allison, William M.	Pittsburgh
Andrus, Robert W.	Westfield, N. J.
Arnold, J. Douglas	Reading
Arnoldus, Jacobus	Newtown, Conn.
Ashmead, Jeannette L.	Brooklyn, N. Y.
Bair, Harold A.	Cochranville
Balanda, Francis X.	Waterbury, Conn.
Baldini, Jack A.	Bridgeport, W. Va.
Barbour, David, III	Pennington, N. J.
Barish, Joel M.	Erdenheim
Beemer, Christopher B.	Singapore, Malaya
Bellet, Robert E.	Wyncote
Benner, Linda H.	Old Greenwich, Conn.
Berberian, Shirley A.	Allentown
Berk, Richard S.	Philadelphia
Best, Katharine E.	Mechanicsburg
Betts, Carolyn F.	Concord, N. H.
Betts, Eugene K.	Philadelphia
Bierman, Marjorie A.	Chatham, N. J.
Birch, Carolee D.	Red Bank, N. J.
Bird, Gustavus C., IV	Philadelphia
Bloser, Robert J.	Carlisle
Blumenthal, Melvin S.	Philadelphia
Bolter, Carl E.	Camp Hill
Bolter, Henry H.	Camp Hill
Borger, Barbara A.	Haworth, N. J.
Bossa, Nancy E.	Stamford, Conn.
Breene, Barbara J.	Oil City
Brody, Clifford L.	Lawrence, N. Y.
Bronstein, Russell H.	Harrisburg
Brown, Craig S.	Haddonfield, N. J.
Burger, Stephen P.	Waynesboro
Burkland, Skott B.	Media
Calhoon, Charles M.	Erie
Card, Michael E.	Westminster, Md.
Carl, James F.	Newport
Carlson, Nancy M.	Iselin, N. Y.
Carlton, Merritt	Fairfield, Conn.
Carmosin, Richard J.	Philadelphia
Charlton, Thomas F.	Nanticoke
Christ, Thomas F.	Rock Hall, Md.
Chun, Chu II	Soeul, Korea
Cohen, George A.	Great Neck, N. Y.
Cohick, Keith B.	Enhaut
Coleman, Michael B.	Harrisburg

Compton, Virginia L.	Wallingford
Courtright, Constance L.	Philadelphia
Crompton, Carole E.	East Brunswick, N. J.
Crowley, Susan L.	Hatboro
Currier, Sandra D.	Cincinnati, Ohio
David, Alan M.	Flushing, N. Y.
Davidson, Leslie J.	Yonkers, N. Y.
Davis, Brooke W.	West Chester
Davis, Linell	Whippany, N. J.
Davis, Lynn S.	Hummels Wharf
Dawson, Barton H.	Baltimore, Md.
Derrickson, Susan C.	Flourtown
DeTuerk, John J.	Narberth
Detweiler, Marilyn L.	Jenkintown
Dill, John C.	Rumson, N. J.
DiPasquale, Linda M.	Metuchen, N. J.
Donaldson, Craig H.	Warren
Donohue, Edward M., Jr.	Elma, N. Y.
Duvall, Edmund P.	Mountain Lakes, N. J.
Earl, Susan W.	Paoli
Eater, Edison C.	Marysville
Egan, Thomas E.	Cranford, N. J.
Enck, A. Joan	Denver
Endrizzi, Janice L.	Carlisle
Enos, Lorraine J.	East Williston, N. Y.
Enstrom, Donald R.	Shinglehouse
Enterline, James I.	Camp Hill
Esterline, Ann-Louise	York
Farley, Louise R.	Baltimore, Md.
Finucane, James R.	Chambersburg
Flammer, Harold R.	Pelham Manor, N. Y.
Forsberg, Hilma L.	Knoxville
Frazier, Alexander S.	Gwynedd Valley
Frese, H. Peter	Old Saybrook, Conn.
Frost, Judith L.	Arlington, Va.
Fuller, Joan C.	Boston, Mass.
Gallagher, Kathryn A.	Carlisle
gaNun, Charles F.	New Rochelle, N. Y.
Gauntt, James E.	Levittown
Gibbs, Richard H.	Somerset
Glazer, Ronald B.	Philadelphia
Goodwin, Susan M.	Chatham, N. J.
Gordon, John T.	White Plains, N. Y.
Gordon, W. Davison, Jr.	Pittsburgh
Green, Carolyn D.	Harrisburg
Greenawalt, David I.	Hamburg
Greendlinger, Arthur J.	Hewlett, N. Y.
Greene, David S.	Silver Spring, Md.
Groves, Eric J.	Oreland

Grynaviski, Daniel C.	Bethlehem
Guckert, Richard H.	Upper Darby
Hafer, Iole Z.	Ventnor, N. J.
Haines, Gary D.	Wyomissing
Harrell, David H.	Poolesville, Md.
Harrison, John S.	Baltimore, Md.
Hart, Geralynn	Rosemont
Harter, Mary E.	Watson town
Harwood, G. Alec	Scarsdale, N. Y.
Haskell, Trueman L., Jr.	Lanham, Md.
Heefner, Rodney R.	Emmaus
Heffner, Marybeth	Coatesville
Helsel, William J.	Falls Church, Va.
Hemphill, George W.	Philadelphia
Hendrickson, Roger M.	Willow Grove
Hetrick, Judith A.	Harrisburg
Hindle, Robert E.	Springfield
Hirche, Irene L.	Philadelphia
Hitchens, Glenn E.	Milford, Del.
Hitchens, Patricia A.	Chevy Chase, Md.
Houseal, Dona E.	York
Howland, Jane H.	Philadelphia
Huddy, Marianne	Philadelphia
Hughes, Patricia	Chevy Chase, Md.
Hunt, Barbara A.	Camp Hill
Icenhower, Joseph B., Jr.	Drexel Hill
Ingersoll, George F., Jr.	Penllyn
Ivill, William J.	Pittsburgh
Jackson, Jane M.	Media
Jacocks, Barbara A.	Rockville, Md.
Jaggard, Henry B.	Pitman, N. J.
Jefferson, Robert D.	Baltimore, Md.
Johnson, Audrey L.	Wantagh, N. Y.
Johnson, Theodore J.	Avon, N. J.
Jones, Betsy A.	Delmar, N. Y.
Jones, Carroll E.	Washington, D. C.
Jones, Judy A.	Chambersburg
Jones, L. Jean	Riverside
Jones, S. Thomas D.	Philadelphia
Kazanjan, Faith L.	Middlebury, Conn.
Keenan, Thomas M.	Collegeville
Keil, Charles B.	Strafford-Wayne
Keiner, Robert B., Jr.	Chevy Chase, Md.
Kenney, Charles K.	Fairless Hills
Kersey, Douglas J.	Pennington, N. J.
Kleinberg, Ralph A.	Berkeley Heights, N. J.
Klinger, Terry G.	Wellsville, N. Y.
Klunk, Fred R.	New Oxford

Koeln, Richard H.	Floral Park, N. Y.
Kohler, William F., Jr.	Lock Haven
Kopenhagen, Joyce S.	Hummelstown
Koste, Byron R.	Shillington
Krueger, Virginia L.	West Lawn
Lamb, Stuart M., Jr.	Woodbridge, Conn.
Larcombe, Samuel H., Jr.	Silver Spring, Md.
Laszlo, John P.	Harrisburg
Lee, William C.	Springfield
LeRoy, John L., Jr.	Simsburg, Conn.
Lewis, Howard P.	Winchester, Va.
Light, David R.	Carlisle
Line, Henry	Carlisle
Lockspeiser, Stephanie	Williamsport
Loew, Alison	New York, N. Y.
Logan, Kay L.	Newark, Del.
Lohman, Dorothy M.	Pound Ridge, N. Y.
Lowe, William B.	Philadelphia
Lowell, Christopher R.	Rye, N. Y.
Lower, Larry E.	Mechanicsburg
Lutz, Marjorie V.	St. Albans, N. Y.
McAlister, Rodger L.	New Haven, Conn.
McCarty, William M., Jr.	Carlisle
McKinley, Ralph C.	Boothwyn
McKnight, Clark A., II	Metuchen, N. J.
McPherson, Douglas R.	Granby, Mass.
Madden, Joseph P.	Darien, Conn.
Mann, Philip R.	Orange, N. J.
Mark, George E., III	Meadowbrook
Markizon, Alan R.	Philadelphia
Martin, Suzanne L.	Lemoyne
Masters, Wayne R.	Valley Stream, N. Y.
Maxwell, Patricia A.	Pittsburgh
Meade, Robert A.	Hatboro
Means, John T.	Lancaster
Mikkelsen, Nils J.	Santiago, Chile
Miles, Nancy A.	Camp Hill
Miller, Russell H., Jr.	New Holland
Morgan, Richard W.	Atlantic Highlands, N. J.
Morris, Anthony B.	Frankfurt, Germany
Morrow, Linda M.	Pittsburgh
Murphy, R. Paul	Manasquan Park, N. Y.
Myers, Ellis R.	Forty Fort
Myers, Linn M.	Sharon
Nailor, Kathleen C.	Broomall
Nevens, Mary E.	Upper Montclair, N. J.
Nichols, Ronald D.	Harrisburg
Noblit, Susan M.	Jersey Shore
Nolte, Laurence H.	Merion Station

Olmstead, Charles E.	Sayre
Orenstein, Herbert J.	North Plainfield, N. J.
Orr, Walter L.	Chester, N. J.
Pagdin, Janet A.	Little Silver, N. J.
Palitz, Harvey F.	Philadelphia
Patterson, William S.	Huntingdon
Patton, William F.	Flourtown
Penney, William H.	Mars
Pergam, Carl J.	Flushing, N. Y.
Petzinger, Robert J.	Summit, N. J.
Philips, Sally L.	Sunbury
Picton, Leonard R.	Bethlehem
Pinheiro, E. Barry	Philadelphia
Piserchia, Gerald J.	Nutley, N. J.
Pratt, Vaughan W.	Bryn Mawr
Rader, Kathryn C.	Dauphin
Rago, Albert R.	Collingswood, N. J.
Rapuano, Michael R.	Newtown
Rathke, Martin P.	Bergenfield, N. J.
Raysor, Sonia C.	Downingtown
Reichard, David L., II	Waynesboro
Reish, William G.	Landisburg
Renshaw, Charlotte L.	Clifton Springs, N. Y.
Rhoads, Elizabeth G.	Philadelphia
Richards, Merrill A.	Reading
Riddlesberger, Merchline M., Jr.	Carlisle
Rogers, Lance D.	Sherman, Conn.
Romberger, David H.	Middletown
Royce, Elizabeth M.	Carlisle
Russ, Carla E. A.	Verona, N. J.
Saalfeld, Robert A.	Ramsey, N. J.
Sacks, Nancy H.	Great Neck, N. Y.
Sadler, Brenda A.	Red Bank, N. J.
Schaefer, William P.	Cynwyd
Schenck, Judith A.	Hatfield
Schiavo, Sandra M.	Jersey Shore
Schlosberg, Robert L.	Levittown
Schlusser, Robert E.	Carlisle
Schneider, Adele J.	Little Falls, N. J.
Schneider, David	New York, N. Y.
Schultz, John D.	Silver Spring, Md.
Schwartz, Robert D.	Philadelphia
Seidel, Christopher W.	Milton
Shaffer, Richard S.	Morristown, N. J.
Shannon, Gayle M.	Camp Hill
Shaver, John D.	Butler, N. J.
Sheldon, Stanley M.	Thompson
Sherman, William G. S.	Pittsburgh

Sherry, Robert S.	West Nyack, N. Y.
Shinn, Allen E.	White Plains, N. Y.
Shipp, Richard S.	Frederick, Md.
Showalter, Paul M., Jr.	Lewisburg
Simmons, Elizabeth M.	Martinsville, Va.
Skillman, Margaret S.	Wallingford
Slott, Philip	New York, N. Y.
Smith, Milton R.	Towson, Md.
Smith, William M.	Haddonfield, N. J.
Souser, Norma G.	Harrisburg
Spahr, William T., Jr.	Hanover
Spencer, Howard R.	Pittsfield, Mass.
Spire, Henry H.	Hummelstown
Spring, Peter C.	Tenaflly, N. J.
Stair, Bruce W.	Littlestown
Stambaugh, Jeffrey L.	Menges Mills
Steedle, Roger C.	Ventnor, N. J.
Sterling, Patricia L.	Devon
Stine, Peter T.	Villanova
Stiscia, Alfred R.	Chester
Stout, John W.	Reading
Strite, Katherine	Chambersburg
Sutton, Virginia E.	Philadelphia
Swope, Ralph E.	Pelham Manor, N. Y.
Taylor, John B.	White Plains, N. Y.
Taylor, Robert F.	Washington, D. C.
Teller, Susan E. C.	Wilkes-Barre
Templeton, Mary E.	Tenaflly, N. J.
Thompson, Bradley D., Jr.	Davidson, N. C.
Tiffany, David M.	Susquehanna
Tindall, James M.	Ardmore
Tompakov, Harvey M.	Baltimore, Md.
Torrey, David C.	Easthampton, Mass.
Toy, C. Jill	Chadds Ford
Vance, Dennis E.	Springfield
Waddell, Jeffrey S.	Wyomissing
Waight, David W.	Carlisle
Wallace, Alvah A.	Bloomfield, N. J.
Walton, Deborah A.	Moylan Rose Valley
Walz, Marilyn	Arlington, Va.
Warlow, Samuel M.	Carlisle
Warren, Judith A.	Bethesda, Md.
Washburn, Philip S.	Roselle Park, N. J.
Weidner, Frederic C.	Cranbury, N. J.
Wettstein, Frank D.	Hempstead, N. Y.
White, Edward H.	Pottsville
White, William H.	Oil City
Williams, Kenneth J.	Santa Barbara, Calif.
Williams, Reeve N.	Wayne
Williams, Roberta L.	Lancaster

Wolfe, Howard A.	New York, N. Y.
Woodring, James H.	Nanty-Glo
Young, Mary E.	Fairfax, Va.
Zeigler, Zella R.	Hyndman
Zug, Emily M.	Haverford
Zuyus, Peter B.	Brooklyn, N. Y.

Freshman

Aldred, William L.	Morton
Alexis, Georgiann	Harrisburg
Almstead, Karen L.	Delmar, N. Y.
Anderson, Franklin L.	Falls Church, Va.
Armor, Elaine V.	Oreland
Arndt, John C., IV	Abington
Ashcraft, Linda S.	Pittsburgh
Baker, George L.	Harrisburg
Baldauf, Richard B., Jr.	Bloomfield, Conn.
Bankert, Richard A.	Littlestown
Barlow, William B.	Harrisburg
Barney, Stephenie K.	Harrisburg
Barron, Paul L.	Butler
Barton, Dennis L.	Waynesboro
Bayley, John L.	Cockeysville, Md.
Beagle, Robert M.	Bloomsburg
Berry, Carolyn J.	Carlisle
Billman, Christopher W.	Oyster Bay, N. Y.
Bishop, Henry M.	Easton, Conn.
Boulton, Richard N., Jr.	West Hartford, Conn.
Brinkley, James R., Jr.	West Hempstead, N. Y.
Brown, Claire D.	Falls Church, Va.
Buchanan, Robert J.	Baltimore, Md.
Burnett, Ralph M., Jr.	Towson, Md.
Burtner, Paul D.	Dayton, Ohio
Butler, Larry S.	Clearfield
Canfield, Cynthia J.	Indiana
Canright, Richard B., Jr.	Washington, D. C.
Chalmers, James H., Jr.	Springfield, N. J.
Childs, Richard E., Jr.	Harrisburg
Chronister, John H.	York
Clapp, Robert A.	Berlin, Conn.
Clyma, Jane W.	Yonkers, N. Y.
Coffman, Mary E.	Princeton, N. J.
Cole, G. Alexander	Upper Montclair, N. J.
Cole, Jack E., Jr.	Bethlehem
Comstock, Charles C.	Franklin Square, N. Y.
Cordes, Lee R.	Ivyland
Cowan, Nancy K.	Carlisle
Cowman, Quentin R., Jr.	Camp Hill

Coyle, Norman C.	Towanda
Craig, Charles R.	Carlisle
Craver, Forrest E., III	Gettysburg
Crawshaw, G. Paul	Oaklyn, N. J.
Cressman, Robert L.	Richlandtown
Crichton, Andrew B.	Pemberton, N. J.
Cross, Jonathan M.	Monson, Mass.
Crowe, Ronald P.	Wilmington, Del.
Custer, Nancy J.	Lyndonville, N. Y.
Davey, Mary M.	New York, N. Y.
Davis, Karen L.	Catawissa
Davis, Susan S.	Paoli
Davison, Judith M.	Cranford, N. J.
DeLaney, Donald E.	Stafford-Wayne
Del Campo, Ralph	Concord, Mass.
Derrickson, John P.	Media
Dickinson, Dudley	Alexandria, Va.
Dickman, Robert H.	Philadelphia
Diehm, Victor C., Jr.	Conyngham
Dissinger, Eric I.	Reading
Doernbach, Ronald E.	Philadelphia
Donehower, Weston G.	Wilmington, Del.
Douglas, Stuart	Brookfield Center, Conn.
Duncan, Robert P.	Carlisle
Eaton, Jayne L.	Harrisburg
Elliott, Dale C.	Skaneateles, N. Y.
Etherington, Frederick H.	Haverford
Euliano, John P.	Meadville
Faulkner, Gordon T.	Basking Ridge, N. J.
Fenn, Barbara L.	Princeton, N. J.
Fine, Kenneth C.	Woodmere, N. Y.
Fitzpatrick, Charles A., III	Carlisle
Fleisch, Helmut	Pottstown
Frey, Allan H.	Lancaster
Friedman, Muriel	Lynbrook, N. Y.
Friedman, Ronald M.	State College
Friedrich, John T.	Ocean City, N. J.
Fullerton, Susan C.	Media
Galloway, Glenn R.	Glen Mills
Gaskin, Felicia A.	Enola
Gates, John R.	Tyrone
Gerofsky, Stephen E.	Trenton, N. J.
Gossens, Philip F.	Arlington, Va.
Goulet, Arthur W., Jr.	Hartford, Conn.
Gratiot, Mary S.	Rochester, N. Y.
Green, Harvey J.	Ventnor, N. J.
Greenfield, Judith R.	Erlton, N. J.
Greenip, Carol J.	Middletown, N. J.
Greevy, Lester L., Jr.	Montoursville

Griesemer, Bettykay	Allentown
Griswold, John R.	Westfield, N. J.
Hall, John P.	Wormleysburg
Hallam, James R.	Philadelphia
Hallam, Thomas H.	Philadelphia
Hamilton, Richard P., Jr.	Huntingdon Valley
Hankin, Arthur W.	Philadelphia
Hansell, T. Stevenson K.	Swarthmore
Harris, Harold J., Jr.	Wilkes-Barre
Harvey, Linda K.	Alexandria, Va.
Hatch, James S.	Lenox, Mass.
Hazzard, John W.	Seaford, Del.
Heavener, Michael P.	Strafford-Wayne
Hecker, Andrew C., Jr.	Merchantville, N. J.
Heffner, James W., Jr.	Orwigsburg
Heisey, Ronald B.	Quentin
Heishman, Garrett L., Jr.	Carlisle
Hendler, Virginia A.	Abington
Hendry, Alexander L., Jr.	Emmaus
Henning, Judith A.	Shaker Heights, Ohio
Henyon, Gilbert B.	Middletown, N. J.
Herley, Sue E.	Coatesville
Hermann, Neil A.	Middleburg
Hewlett, Everett A., Jr.	Washington, D. C.
Hiner, Lucian W., Jr.	Glens Falls, N. Y.
Hipp, Robert G.	Wellsville, N. Y.
Hoffman, Joseph R.	Baltimore, Md.
Hoffman, Richard R., Jr.	Lebanon
Hood, Priscilla M.	Corning, N. Y.
Horner, Susan G.	Larchmont, N. Y.
Horsley, Patricia A.	Narbeth
Horwitz, Steven F.	Brooklyn, N. Y.
Hostelley, Richard T.	Jenkintown
Howard, Salley E.	McLean, Va.
Hudson, James B., Jr.	Bethesda, Md.
Hughes, Cary A.	Orange, Va.
Hutchinson, James D.	Hatboro
Imler, Linnea D.	Vienna, Va.
Ireland, Elizabeth S.	Amityville, N. Y.
Johnson, Bertram L., Jr.	Broomall
Johnson, Carl H., Jr.	Gettysburg
Jones, Alfred, Jr.	Munhall
Jones, Blair	Washington, D. C.
Jones, Robert L.	Springdale
Jones, Thomas H. W., Jr.	Norristown
Judelle, Jesse L.	Philadelphia
Keating, Patrick H.	Alexandria, Va.
Kefauver, Barry J.	Frederick, Md.
King, Cecile D.	Carlisle

Kingman, Margaret	Merrick, N. Y.
Kintner, Jonathan E.	Mishawaka, Ind.
Koran, Helen E.	Southampton
Kreisher, William S.	Catawissa
Laake, Walter E., Jr.	Silver Spring, Md.
Lacek, Lynda S.	Bristol
Langhart, Nicholas M.	Painesville, Ohio
Laupheimer, Michael	Westbury, N. Y.
Leong, Leslie D.	Flushing, N. Y.
Leslie, Donald S.	Longmeadow, Mass.
Levin, Alan	Philadelphia
Levine, John R.	Linden, N. J.
Limbaugh, Glenn C., Jr.	Milton
Lippy, Charles H.	Binghamton, N. Y.
Litwin, Thomas C.	Harrisburg
Livingston, Cheryl L.	Harrisburg
Lord, William C.	Stamford, Conn.
Lorenz, Stephen A., III	Harrisburg
McBrayer, Patricia G.	Fayetteville
McCarthy, Nancy A.	Glenshaw
McCullough, David D., Jr.	Carlisle
McCullough, Thomas B., Jr.	Wappingers Falls, N. Y.
Madison, Claire E.	Annapolis, Md.
Mangle, Harry E., Jr.	Waverly, N. Y.
Marien, Harry R.	Darien, Conn.
Martin, Robert A., Jr.	Carlisle
Medaugh, Robert A.	Woodbury, N. J.
Mettler, Robert S.	East Millstone, N. J.
Mezzi, Andrew J.	Wallingford, Conn.
Miller, Patricia A.	Merchantville, N. J.
Miller, Paul M.	Harrisburg
Miller, Robin P.	Glen Mills
Millington, John T., Jr.	New Cumberland
Millstine, Walter L.	Pittsburgh
Montgomery, Paul C.	Havertown
Montgomery, Susan R.	Carlisle
Morey, Beverly S.	Morristown, N. J.
Mumper, Robert L., Jr.	Honolulu, Hawaii
Murphy, Mary P.	Chambersburg
Nace, Barry J.	Mechanicsburg
Nemec, Michael A.	Pittsburgh
Newton, Maureen D.	Philadelphia
Nichols, John H.	North Haven, Conn.
Nicolosi, Alfred J.	Salem, N. J.
Nuetzman, Carol F.	Flushing, N. Y.
O'Neil, Paul T., Jr.	Haddonfield, N. J.
Packman, Gary H.	Philadelphia
Pearsall, Linda L.	Wantagh, N. Y.

Pennington, Fred A., Jr.	Mechanicsburg
Perkins, Russel G., Jr.	Amityville, N. Y.
Petrucelli, Gerald J.	Orange, N. J.
Pettersen, Karen L.	Pittsburgh
Pierce, Samuel E., Jr.	Riverton, N. J.
Point, Lawrence W.	Woodstown, N. J.
Potamkin, Macy A.	Philadelphia
Proctor, Barbara A.	Carlisle
Putnam, David S.	Washington, D. C.
Rafalsky, Thomas R.	New York, N. Y.
Ranagan, William G., Jr.	Vineland, N. J.
Rand, Lawrence A.	Lancaster
Rapino, Geraldine E.	Jersey City, N. J.
Raskopf, Carol A.	Montvale, N. J.
Reid, Robert K.	East Stroudsburg
Renbaum, Joel W.	Baltimore, Md.
Revell, Mary I.	Sherwood Forest, Md.
Robert, Charles O., II	Carlisle
Rogers, Andrew Y., Jr.	New York, N. Y.
Rogers, Judith	East Orange, N. J.
Rohrbaugh, Michael J.	Yardley
Romeo, Angelo G.	Newfield, N. J.
Rose, Elizabeth J.	Lakewood, N. J.
Rudolph, Joseph K.	Camp Hill
Sansbury, Sarah	Sunderland, Md.
Savidge, Linda J.	Arlington, Va.
Schambach, Robert A.	South Orange, N. J.
Schmidt, Christina	Wyomissing
Schutz, Gertrude C.	Baltimore, Md.
Scurfield, Raymond E.	Elizabeth
Searles, Pamela W.	Hewlett, N. Y.
Sears, John B.	Darling
Selden, Anne W.	West Hartford, Conn.
Shapiro, Milton J.	Harrisburg
Shapiro, Richard E.	Philadelphia
Sharf, James C.	Lancaster
Shukis, Charles A.	Butler
Sia, Ida-Jane D. F.	Carlisle
Smith, Ann L.	Springfield
Smith, Jay F., III	Kimberton
Smith, Patricia A.	Bethel Park
Smith, Ralph E.	Burlington, N. J.
Smith, Richard S.	Wilmington, Del.
Smith, Valerie A.	Fort Washington
Snyder, Harry W.	Carlisle
Snyder, Lawrence E.	Littlestown
Spengler, Barbara A.	Allentown
Stahler, John E.	Summit Hill
Stegmeier, S. Kathryn	Harrisburg
Steinbeck, Nancy S.	Devon
Stern, Marc I.	Vineland, N. J.

Taylor, Penelope A.	Glastonbury, Conn.
Thackeray, Frank W.	Glenshaw
Thornhill, Gail M.	Havertown
Tillman, Arthur L., III	Prospect Park
Tindall, Anne S.	Wayne, N. J.
Toomey, Kenneth H.	Mount Holly, N. J.
Treicis, John	Landisburg
Troxler, Mary E.	Lansdowne
Walker, Bruce G.	Silver Spring, Md.
Walker, Paul E.	Johnstown
Walters, Gary A.	New Cumberland
Walz, Shaubut C., III	Carlisle
Wambaugh, Mae L.	Emigsville
Warden, Philip S.	Alexandria, Va.
Warren, Barry L.	Westbury, N. Y.
Way, Ernest N., III	Pleasantville, N. Y.
Weaver, G. Robert	Huntingdon
Weyant, Charles E.	Jersey City, N. J.
Wicks, Barbara K.	Wilmington, Del.
Williams, James P.	Harrisburg
Wilson, Lewis A., III	Downingtown
Winston, John M.	Babylon, N. Y.
Wise, Joyce L.	Narbeth
Witherell, Nancy A.	Wellesley, Mass.
Witschonke, Karl R.	Darien, Conn.
Wolf, Richard G., Jr.	Lancaster
Woods, Shelley A.	Chatham, N. J.
Yasgur, Bruce J.	Philadelphia
Yeagley, John F.	York
Young, Emilie M.	Jersey City, N. J.

Zahn, Brian J.	Philadelphia
Zemo, Ruby L.	Middletown
Zimmer, Barbara A.	Dauphin
Zug, Jeannette	Bethlehem
Zurich, Joan	Arlington, Va.
Zwart, Karen E.	Oreland

Unclassified

Adams, Andrea L.	Carlisle
Andrews, Patricia B.	Carlisle
Baker, Sharon S.	Carlisle
Bedard, Mary A.	New Kingstown
Benson, Waneta	Mechanicsburg
Bostock, Judith L.	Carlisle
Boyd, William P.	Harrisburg
Bracken, Dolores J.	Pittsburgh
Chick, Joseph J.	Mechanicsburg
Clark, Russell E.	Mount Holly Springs
Condict, Clinton A., Jr.	Lakewood, Ohio

Cowley, Allen W.	Camp Hill
Davis, Cynda L.	Carlisle
De Glas, Andre J.	Carlisle
Drum, David J.	Newport
Dutrey, Marjorie B.	Carlisle
Eden, William H.	Camp Hill
Farrell, Norman	Carlisle
Fasick, Garry L.	York Springs
Foster, Eileen L.	Carlisle
Hall, James S.	Carlisle
Heinze, Harald G.	Munster, Germany
Hinkel, Margaret O.	Mechanicsburg
Hoffman, George L., Jr.	Carlisle
Israel, Thomas B., Jr.	Hershey
Kreutz, Elke E.	New Cumberland
Long, Herndon H.	Carlisle
MacPherson, Kathleen E.	Mechanicsburg
MacPherson, Marcia A.	Mechanicsburg
Moul, Larry E.	Spring Grove
Mowery, Helen P.	Newville
Naff, Anna S.	Carlisle
Nevins, Frances M.	Brattleboro, Vt.
Orton, William H.	Catonsville, Md.
Palmer, Jane	Carlisle
Rahilly, John J.	Carlisle
Rehr, Susan K.	Carlisle
Rubendall, Carolyn D.	Carlisle
Sandels, Mary P.	Carlisle
Settemire, Clara C.	Carlisle
Sia, Alysia, D. H.	Carlisle
Spahr, Boyd Lee, III	Blue Bell
Stine, James E.	Carlisle
Telford, Marilyn E.	Camp Hill
Van Gavree, Sandra V.	Carlisle
Witmer, James L.	Carlisle
Wolf, Frank E., Jr.	Carlisle

Spring Semester, 1960-1961

Sophomores

Colfelt, H. Todd	Philadelphia
Stoup, D. Daniel	New Cumberland

Unclassified

Heagy, Frances	Mechanicsburg
Jarrett, Sylvia	Carlisle
Meyers, Toby	Harrisburg
Morganthaler, Carol	Camp Hill
Remsberg, Philip	Carlisle
Rhoads, June	Carlisle
Scarborough, Edmund	Carlisle
Secor, Ann	Carlisle
Whitmore, George I.	Mount Holly Springs

Summer Sessions 1961

Seniors

Comly, David	Philadelphia
Entliss, Andrea A.	Philadelphia
Fitzkee, Harold N.	York
Fogg, Barbara P.	Moylan
Gowdy, Bert S., Jr.	Langhorne
Hoffer, George E.	Carlisle
Kappel, Hans K.	Carlisle
McDowell, Susan E.	Abington
Magill, Richard M.	Harrisburg
Neiman, Charles A.	York
Willard, John L.	Glenside
Younger, George H.	Trumansburg, N. Y.

Juniors

Lehnartz, Jay F.	Radnor
McCracken, Charles R.	Sharpsville
Margenau, Eric A.	South Plainfield, N. J.
Smithers, Henry C., III	Washington, D. C.
Thompson, Bonnie Lou	Mount Holly Springs

Sophomores

Hastings, William E., Jr.	Windsor, Conn.
Leedy, Thomas F.	Chatham, N. J.
Thompson, Fairman R.	Fairfield, Conn.
Watson, George S.	Bryn Mawr

Unclassified

Abrams, Stephen N.	Harrisburg
Allwein, Joann H.	Newville
Arnold, Barbara A.	Camp Hill
Baker, Frances A.	Camp Hill
Bankert, Frances J.	Carlisle
Barr, Hugh H.	Philadelphia
Boyer, Thomas S.	Carlisle
Boyer, Virginia	Carlisle
Bucove, David A.	Carlisle
Cornew, John	Berlin, N. J.
Cramer, Carol	Harrisburg
Crawford, Robert W.	Dillsburg
Dutrow, Peter	Duncanville
Eldridge, Wallace B., III	Camp Hill
Ennis, Noel-Carol	Camp Hill
Frank, Diane L.	Harrisburg
Friedland, Marlin H.	Harrisburg
Giusti, Donato P., Jr.	Harrisburg
Hepler, Thomas R.	Camp Hill
Hollar, John S., Jr.	Harrisburg
Holman, Carson E. R.	New Bloomfield
Irwin, Dorothy D.	Carlisle
Jay, Priscilla L.	Glen Riddle
Klinger, R. Scott	Mechanicsburg
Lappano, James R.	Steelton
Letcher, Susan L.	Camp Hill
Lowther, J. William	Camp Hill
McKeehan, Robert F.	Carlisle
Mayhew, Jonathan	Highspire
Merritts, James F.	Camp Hill
Newstat, Steven	Philadelphia
Nickel, James	Duncannon
Ord, Priscilla A.	Carlisle
Phillips, Laura S.	Camp Hill
Reed, Maureen P.	Carlisle
Schneider, Paul H.	Carlisle
Solomon, William J.	Gettysburg
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